

ПУБЛИКАЦИЈЕ АСТРОНОМСКЕ ОПСЕРВАТОРИЈЕ У БЕОГРАДУ  
PUBLICATIONS OF THE ASTRONOMICAL OBSERVATORY OF BELGRADE

Св. 71

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Милан С. Димитријевић

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Milan S. Dimitrijević

BELGRADE ASTRONOMICAL OBSERVATORY IN 2000



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## FOREWORD

During 2000, 118 bibliographic items have been published, 14 among them in international scientific journals of highest rank, 3 in the book of an international publisher, 30 in national scientific journals, 2 invited lectures and 6 abstracts of invited lectures of international conferences, 48 as contributed papers of international and national conferences, and 7 in the IAU circulars. Eight invited lectures and progress reports have been given by Observatory's fellows at international conferences and two at national ones, while one monographic text has been published in national publications. Milan Ćirković defended his PhD thesis, whose abstract has also been published. Moreover, Nataša Vranešević defended her M.Sc. thesis

Number 161 of the Observatory's publication SERBIAN ASTRONOMICAL JOURNAL, as well as Nos. 67, 68, and 69 of the PUBLICATIONS OF THE ASTRONOMICAL OBSERVATORY OF BELGRADE have been issued. These publications are regularly sent to 130 institutions and libraries in 45 countries and to 15 institutions and libraries within Yugoslavia.

Observatory's fellows took part in works of 13 Scientific conferences abroad (30 participations by 16 fellows) and seven conferences in Yugoslavia (39 participation by 17 fellows).

Organized by the Observatory were:

1. II Serbian - Bulgarian Astronomical Meeting, Zaječar (Gamzigradska Banja), 23-26.06.2000.
2. School for young astronomers: Processing of astronomical images by MIDAS software, Research center Petnica, Valjevo, 21-24.11.2000.

Astronomical Observatory was also co-organizer of:

2. III Belarussian - Yugoslav Symposium on Physics and Diagnostics of Laboratory and Astrophysical Plasmas, Minsk 17-21.09.2000.

During 2000, Observatory's fellows have continued collaboration with their colleagues in Argentina, Australia, Austria, Belarus, Belgium, Brazil, Bulgaria, Finland France, Germany, Greece, Hungary, Italy, Japan, Republic of Macedonia, New Zealand, Romania, Russia, Slovakia, Spain, Sweden, Turkey, Ukraine, United Kingdom, USA and Uzbekistan.

Besides 27 newspaper articles, 6 interviews and 20 registered here radio and TV emissions, Observatory's fellows gave 61 lectures on astronomical subjects outside our institution contributing to the cultural life in our country. In addition, 11 lectures were given at the Astronomical Observatory itself.

As from 1998 Astronomical Observatory maintains internet connection available from each one of the personal computers at the Observatory with Windows 95 installed. I note also that Serbian Astronomical Journal is available on www through the Astrophysical Data System (ADS), thanks to the courtesy of the System's holders. The www address is: <http://adswww.harvard.edu/~BOBeo>. As from 1999 the web site of the Belgrade Astronomical Observatory is open and the corresponding www address is: <http://www.aob.bg.ac.yu>. Moreover, the database BELDATA has started developing, being available through the internet at the address: <http://www.aob.bg.ac.yu/BELDATA>.

## 1. SOME OF THE MAIN RESULTS OF THE OBSERVATORY'S RESEARCH ACTIVITY

We review here contributions to the science of fellows of Belgrade Observatory published in international journals, the results of observational programmes as well as Ph D. theses, since such contributions should be of particular interest to astronomical community.

Milan M. Ćirković in collaboration with N. Bostrom (Ćirković and Bostrom, 2000) have undertaken a cross-disciplinary cosmological and philosophical study of the distant future of the universe. The influence of recent detections of a finite vacuum energy ("cosmological constant") on our formulation of anthropic conjectures, particularly the so-called Final Anthropic Principle is investigated. It is shown that non-zero vacuum energy implies the onset of a quasi-exponential expansion of our causally connected domain ("the universe") at some point in the future, a stage similar to the inflationary expansion at the very beginning of time. The transition to this future inflationary phase of cosmological expansion will preclude indefinite survival of intelligent species in our domain, because of the rapid shrinking of particle horizons and subsequent depletion of energy necessary for information processes within the horizon of any observer. Therefore, to satisfy the Final Anthropic Hypothesis (reformulated to apply to the entire ensemble of universes), it is necessary to show that (i) chaotic inflation of Linde (or some similar model) provides a satisfactory description of reality, (ii) migration between causally connected domains within the multiverse is physically permitted, and (iii) the time interval left to the onset of the future inflationary phase is sufficient for development of the technology necessary for such inter-domain travel. These stringent requirements diminish the probability of the Final Anthropic Hypothesis being true.

In continuation of the work on the origin and properties of Ly-alpha absorption systems carried out in previous years, Milan M. Ćirković and K. M. Lanzetta (Ćirković and Lanzetta, 2000) have investigated the autocorrelation function of these absorption lines. Recent measurements of the autocorrelation function of the Ly $\alpha$  clouds are analyzed from the point of view of a simple model with strong clustering on the small scales. It is shown that this toy model reproduces fairly well the important linear relation between amplitude of the absorber autocorrelation function and neutral hydrogen column density. In addition, it predicts a correct evolutionary trend of the correlation amplitudes. Some possible ramifications of these results are discussed, and it is found that this is another instance of successful application for the galactic halo model for the origin of large fraction of the Ly-alpha forest lines.

Along the similar track, Milan Ćirković and Srdjan Samurović (Ćirković and Samurović, 2000) have put forward a simple consistency argument for the galactic halo origin hypothesis, based on the recent determination of column-density vs. impact parameter relation for the low-redshift gaseous galactic haloes. It is shown that observations of neutral hydrogen absorption around luminous galaxies are consistent with the index of the power-law column density distribution derived from statistical analysis of large samples of high-redshift Ly-alpha forest lines. The similarity between the two numbers is a pure coincidence, unless one is ready to accept that the dominant signal in samples from which the column density index was determined originates in gaseous haloes of normal galaxies.

Finally, the same topic was tackled from another angle in Milan M. Ćirković, Srdjan Samurović and Aleksandra Djorić (Ćirković et al, 2000), where the discussion of the relationship between cooling radius in two-phase adiabatic halo models and observationally established maximal radius of absorption in luminous galaxies at low redshift is presented. It is of paramount importance that any viable model of the halo is able to reproduce empirical value of the absorption cross-section of normal galaxies and its scaling with luminosity. Several ways for bringing the theoretical and observational values into agreement are outlined in that paper. It is of great methodological importance to fully assess the difficulties any model is likely to encounter when testing predicted extent of absorption and column density distribution against recently obtained low-redshift Ly-alpha absorption data.

In a series of papers Milan S. Dimitrijević and Sylvie Sahal-Bréchet, have performed, by using semiclassical - perturbation formalism, large scale calculations of Stark broadening parameters for a number of spectral lines of various emitters from neutrals up to twelve time charged ions. The results of such calculations are of interest for a number of different problems in physics, astrophysics and plasma technology. Their calculations are performed within the semiclassical - perturbation formalism for a number of radiators. As the continuation of this project, Milan S. Dimitrijević and Sylvie Sahal - Bréchet (Dimitrijević and Sahal-Bréchet, 2000) have considered Stark broadening within F VI, Cl VII and Kr VIII spectra. Chlorine and fluorine spectral lines have been observed in Solar (Moore, Minnaert and Houtgast, 1966), as well as in stellar spectra (Merrill, 1956). In Trimble (1991) has been reported that chlorine and fluorine have been found in the ejecta of SN 1987 A supernova. With the development of space-borne spectroscopy, spectral line parameters even for trace elements become of increasing interest for astrophysics. Fluorine is a product of hydrogen burning in stellar interiors and envelopes, chlorine a product of alpha processes - neutron capture on slow time scale (slow means slower than typical beta decay time) where the first step would be photostripping of alpha particles from some  $\text{Ne}^{20}$  nuclei and their subsequent capture by others, and krypton a product of s (neutron capture on slow time scale orderly evolution of stellar interiors) and r (neutron capture on fast time scale in type I supernovae) processes. Consequently, the data on the spectral line broadening parameters of these elements in various ionization stages are of interest for the considering and modelling of stellar plasma, particularly subphotospheric layers and radiative transfer in stellar interiors. For the investigation and developing of soft X-ray lasers, such data may be useful too (see *e.g.* Griem and Moreno, 1990, and,



Fill and Schöning, 1994). Also, line broadening data for multiply charged ions are of significance for the fusion plasmas and laser-produced plasmas research, and for the investigation of Stark broadening parameter systematic trends along isoelectronic sequences.

Within the semiclassical-perturbation formalism, Milan S. Dimitrijević and Sylvie Sahal - Bréchet (Dimitrijević and Sahal-Bréchet, 2000) have calculated electron-, proton-, and He III-impact line widths and shifts for 2 fluorine VI, 10 chlorine VII and 6 krypton VIII multiplets. for a perturber density of  $10^{17} \text{ cm}^{-3}$  and temperatures  $T = 100,000 - 2,000,000 \text{ K}$  for F VI and Cl VII, and  $T = 200,000 - 3,000,000 \text{ K}$  for Kr VIII. There are no experimental results concerning F VI, Cl VII and Kr VIII. However, for the Cl VII 2178.8 Å predictions by Purić et al (1988) on the basis of systematic trends along isoelectronic sequences exist, and are in rather good agreement with semiclassical - perturbation results of Dimitrijević and Sahal - Bréchet (2000).

Within the above mentioned semiclassical approach, Milan S. Dimitrijević and Sylvie Sahal - Bréchet (Dimitrijević and Sahal-Bréchet, 1999) have considered also electron-, proton-, and ionized helium-impact line widths and shifts for 20 In III and 2 Tl III multiplets, for perturber density of  $10^{17} \text{ cm}^{-3}$  and temperatures  $T = 20,000 - 500,000 \text{ K}$ , and electron-, proton-, and He III-impact line widths and shifts for 2 Pb IV multiplets, for perturber density of  $10^{17} \text{ cm}^{-3}$  and temperatures  $T = 50,000 - 1,000,000 \text{ K}$ . The obtained data contribute to finding out a large set of reliable semiclassical Stark broadening data of significance for astrophysical and laboratory plasma research.

Luka Č. Popović and Milan S. Dimitrijević (Popović and Dimitrijević, 2000) published Stark broadening parameters for 52 transitions of singly-, doubly-, and triply-charged vanadium ions calculated by using the modified semiempirical method developed by Dimitrijević, Konjević and Kršljanin (Dimitrijević and Konjević, 1980; Dimitrijević and Kršljanin, 1986). The Stark widths and shifts have been calculated for an electron density of  $10^{23} \text{ m}^{-3}$  and presented as a function of electron temperature. Vanadium is present in stellar and solar plasmas, and atomic and spectroscopic data for its ions, including Stark broadening parameters, are of interest for the investigation and modeling of such plasmas. The Stark broadening mechanism is the main pressure broadening mechanism in stellar plasma conditions with  $T_{eff} \geq 10000 \text{ K}$ , i.e. for plasma present in A and B-type stars photospheres. Moreover, it has been found that vanadium is overabundant in some A-type stars. For example Van't Veer-Mennert, Coupry and Burkhart (1985) have found vanadium overabundance in the Am star HR178, and Sadakane and Ueta (1989) an overabundance in Sirius, also an A-type star. Kocer et al. (1993) have compared V I and V II spectral lines in  $\theta$  Cyg,  $\iota$  Psc, 15 Vul, 32 Aqr, and the Sun and they found similar vanadium abundance in all stars considered. Consequently, Stark broadening parameters for vanadium ion lines are of interest not only for the laboratory plasma research and for the testing and developing of the Stark broadening theory for shapes of multicharged ion lines, but also for the consideration of stellar plasma. In the case of singly-, doubly-, and triply-ionized vanadium it is not possible to use the semiclassical method for the calculation of Stark broadening parameters in an adequate manner and with the accuracy usually expected, due to the lack of the reliable atomic data required. Consequently, it is jus-

tified to apply simpler methods like the modified semiempirical method (Dimitrijević and Konjević, 1980; Dimitrijević and Kršljanin, 1986). The obtained results have been compared with simple estimates for V II  $a^5D - z^5F^0$  transition based on regularities and systematic trends (Lakićević, 1983). The agreement is good for the width, indicating that such estimates may be of interest for the Stark width estimates when more sophisticated calculations do not exist. For the shift however, the disagreement is considerable.

Milan S. Dimitrijević and Luka Č. Popović in collaboration with Vladimir Milosavljević and Stevan Djenize published in 2000 (Milosavljević et al., 2000) experimental results for Stark widths and shifts of 14 singly (Kr II) and 11 doubly charged (Kr III) krypton ion spectral lines, measured in the linear, low pressure, pulsed arc at 17,000 K electron temperature and  $1.65 \times 10^{23} \text{m}^{-3}$  electron density. This results are the very first ones for Kr III Stark line shift determination, and the second experimental results of reliable Kr II Stark line shifts. Moreover, 14 Kr II Stark line shifts and 2 Kr II Stark linewidths have been calculated within the frame of the modified semiempirical method (Dimitrijević and Konjević, 1980; Dimitrijević and Kršljanin, 1986). Results of calculations by using the modified semiempirical method, of Stark widths and shifts for 5 Kr III multiplets and such results for 3 Kr III multiplets by using the simplified modified semiempirical method (Dimitrijević and Konjević, 1987) are also presented. The obtained results are compared with other experimental and theoretical results.

One should emphasize here that with the help of the Goddard high resolution spectrograph on the Hubble space telescope, krypton has been detected for the first time in the spectra of the interstellar medium (Cardelli, Sarage and Ebbets, 1991; Cardelli and Mayer, 1997), which represents the material from which the young early type stars (as e.g., Ap and Bp type stars where Stark broadening data are of interest) are formed (Leckrone et al., 1993). Consequently, the obtained results will be of help not only for laboratory plasma diagnostics and krypton plasma research and modeling, but also for the analysis of the trace element spectral lines and abundances.

The knowledge on regularities and systematic trends for Stark line shifts within a given spectrum as e.g. similarities among Stark line shifts within a multiplet, supermultiplet or transition array and systematic trends within a spectral series, is useful for the interpolation of new data and the critical evaluation of experimental data. Milan S. Dimitrijević and Dragana Tankosić (Dimitrijević and Tankosić, 2000) analyzed exceptions to the established shift regularities, on the basis of critically selected experimental data as well as of results of semi-classical calculations. It has been demonstrated that the principal reason for the irregularities discussed, is the influence of the intercombination and forbidden perturbing transitions.

Gojko Djurašević in collaboration with Skopal, A., Jones, A., Drechsel, H., Rovithis-Livaniou, H. and Rovithis, P. (Skopal et al. 2000) performed a photometric study of the eclipsing symbiotic binary AR Pavonis. Light curves of this long periode close binary system ( $P \sim 604.^d6$ ) in quiet and outburst phases are similar to light curves of cataclismic close binary systems. Consequently, in the considered system an intense matter exchange between components occurs, so that for the analysis of these observations, close binary system model with accretion disk has been suggested.

Development and application of adequate model of this symbiotic close binary system represents a key contribution to the understanding of physical processes within the system. Optimal model synthetic lightcurves, obtained by solving inverse problem, fit very well observations, so that it is possible to make a real estimate parameters of components, accretion disc and hot-spot due to capture of gas stream from the second component. The accretion disc temperature profile is estimated too, which in the quiet phase deviates considerably from steady state approximation. The distance to the system has been estimated from analysis of observations, as well as the components mass ratio, mass and radius of the giant component losing mass.

Slobodan Jankov in collaboration with E. Janot-Pacheco and N. V. Leister (Jankov et al, 2000) presents, for the first time, the Fourier-Doppler Imaging (FDI) analysis of periodic line profile variations in a  $\zeta$  Oph-type star. For this purpose they obtained, in 1996 May 3 to May 5, a total of 242 high resolution, high signal-to-noise ratio spectra of the Be star  $\zeta$  Oph itself. Using the FDI technique, they examine the variations in both time and wavelength and complement it with time series analysis. This kind of analysis is valid for both non-radial pulsator and rotation modulation model but they discuss the results in terms of the former model, considering it as the more likely explanation for the observed line profile variability. Two distinct groups of modes are detected: medium ( $4 \leq l \approx |m| \leq 8$ ) and high-degree ones (that could be associated with  $13 \leq l \approx |m| \leq 17$ ). It is shown that the high-frequency oscillations were strongly confined to an equatorial belt narrower than 20 deg, and that the line profile variability was caused predominantly by sectoral modes, although tesseral modes  $|m| = l - 1$  are not excluded accounting for the effect of fast rotation. They discuss the modal nature of the waves with respect to the characteristic oscillation periods in the corotating frame and the high amplitude of the projected rotational velocity variations ( $\approx 20$  km/s).

Darko Jevremović in collaboration with J. G. Doyle and C. I. Short, considered (Jevremović et al, 2000) the influence of the non-thermal velocity (micro-turbulence) on the formation of chromospheric lines in the atmospheres of late type dwarfs. A review of previous work shows a variety of different approaches to the problem leading to different atmospheric structures and consequently different computed line profiles. In that light, they re-examine the formation of the Hydrogen Balmer lines and Na i D lines using twelve different distributions of the micro-turbulent velocity throughout the atmosphere. Their results show a wide range of possible line shapes. Using the analogy with the solar case and the latest results of the non-thermal component widths as derived from instruments on-board SOHO, they model H alpha and the Na i D lines in an active dMe star Gl 616.2. This study is based in part on observations made at Observatoire de Haute Provence (CNRS), France and SOHO.

Silvana Nikolić in collaboration with Kiss, Cs., Tóth, L. V., Moór, A., Sato, F., and Wouterloot, J. G. A., (Kiss et al. 2000) presented the results of optical, far-infrared and radio observations of the small, non-star forming dark cloud Khavtassi 15, located in the Upper Cepheus-Cassiopeia region. They derive the average extinction and the distance from Digitized Sky Survey data and star counts using objective prism spectroscopy. A fully computerized algorithm was used for non-biased analysis of starcount data. A kinetic temperature of 7 K and a peak number density were

estimated from multiisotopic, multilevel CO measurements. CO measurements also revealed three main condensations inside the cloud. Kh 15 has a total gas mass of 34 solar masses and it is most probably part of a shell seen as a FIR loop called GIRL126+10. We investigated the correlation among optical extinction, radio and FIR emission and masses derived for the dust and gas inside the cloud core. Stability analysis has shown, that Kh 15 is not far from gravitational virial equilibrium, and may be fully stabilized by the external pressure. In addition to Kh 15, the starcounts also indicate the presence of an extended nearby extinction layer at which they consider as the wall of the Local Bubble (LB) towards the Upper Cepheus-Cassiopeia. Distances of the dark clouds LDN 1308, LDN 1333 and Khavtassi 19 are also estimated.

The orbital elements, masses and orbital parallaxes are communicated for the first time by Georgije Popović, Rade Pavlović and Vesna Živkov (2000) for the following eight double stars: WDS 04089+4614 = ADS 3007 = A 998 = HD 25987, WDS 04275+1113 = ADS 3228 = BU 1186 = HD 28217, WDS 04400+2301 = ADS 3370 = HU 442 = HD 29538, WDS 18018+0118 = ADS 10990 = AB = BU 1125 = HD 164577, WDS 18033+3921 = ADS 11023 = STF 2275 = HD 88432, WDS 18054+6216 = ADS 11073 = HU 1290 = HD 166206, WDS 19389+3514 = ADS 12746 = HU 953 = HD 185696, WDS 20176+2622 = ADS 13649 = BU 984 = HD 193095. The orbital elements are derived by using the procedure proposed by Popović and Pavlović (1995) while the absolute magnitudes of the components, masses and parallaxes are obtained by applying Angelov's (1993) relations.

During 2000, Milan M. Ćirković defended at the State University of New York in Stony Brook his Ph D Thesis *Gaseous Galactic Haloes and Ly $\alpha$  Absorption Line Systems*. This thesis studies various aspects of the intragalactic origin theory for a large fraction of Ly $\alpha$  absorption line systems observed in spectra of all known QSOs. This long-standing problem has been approached along several different lines, with underlying assumption of the basic unity of physical processes relevant for the structure and evolution of the baryonic content of the universe. A new wave of interest in galactic origin of Ly $\alpha$  forest absorption systems has recently been sparked by observational determination of the extent and structure of extended gaseous haloes of luminous galaxies, and is yet far from being exhausted.

One of the main conclusions is that all observational data gathered so far are in compliance with the picture of two populations of physical objects causing Ly $\alpha$  absorption in QSO spectra: a diffuse, unclustered population of primordial IGM inhomogeneities, dominant at high redshift and the lowest column densities; and population of clouds residing in gaseous haloes of luminous galaxies dominant at low- and intermediate-redshifts and in the higher column density regime. The gradual transition between these two populations represents a major evolutionary event in the history of the gaseous content of the universe. Another lesson learnt in the course of the present work, is that while unraveling the puzzles of the baryonic matter evolution in the universe we need an interdisciplinary approach which will connect seemingly unrelated fields of physics and astronomy into a coherent picture of structure and evolutionary development of the matter as we know it.

During 2000, Nataša Vranešević obtained at Belgrade University the M. Sc. degree with the thesis entitled *Milky Way Kinematics in Solar Neighborhood on the Basis of*

*the Heliocentric Velocities Module Analysis.*

At the Large Refractor of the Astronomical Observatory, Georgije Popović and Rade Pavlović continued their observations of binary or multiply systems, with the help of a CCD St-6 camera. Their results from 1998-2000 periode, together with results of Danilo Zulević from March 1990 until his death in 1998 are published in Zulević, Popović and Pavlović (2000). At the visual telescope of the Ascania astrograph of 13,5/160 cm, photographic observations have been performed by V. Protitch Benishek with CCD ST-6 and ST-8 cameras. Results of comets C/1999 L3 (LINEAR) and C/1999 S4 (LINEAR) as well as minor planets 2000 DO<sub>1</sub>, 1999 RH<sub>27</sub> and 1999 NS<sub>3</sub> observations have been reported in several IAU Circulars. Moreover, 143 precise astrometric positions of seven comets from CCD observations during the period December 1998 - June 2000 have been published (Protitch-Benishek and Benishek, 2000).

**REFERENCES**

**ARTICLES PUBLISHED IN  
INTERNATIONAL SCIENTIFIC JOURNALS**

Ćirković, M. M., Bostrom, N.: 2000, *COSMOLOGICAL CONSTANT AND THE FINAL ANTHROPIC HYPOTHESIS*, *Astrophys. Space Sci.*, **274**, 675-687.

Ćirković, M. M., Lanzetta, K. M.: 2000, *ON THE SMALL-SCALE CLUSTERING OF Ly-ALPHA FOREST CLOUDS*, *Month. Not. Roy. Astron. Soc.*, **315**, 473-478.

Ćirković, M., Samurović, S.: 2000, *COLUMN DENSITY DISTRIBUTION OF GALACTIC Ly-ALPHA ABSORPTION SYSTEMS*, *Astrophys. and Space Sci.*, **271**, 91-95.

Ćirković, M., Samurović, S., Djorić, A.: 2000, *COOLING vs. ABSORPTION RADIUS IN GALAXIES*, *Astrophys. and Space Sci.*, **274**, 867-875.

Dimitrijević, M. S., Saha-Bresho, S.: 1999, *Shtarkovskoe ushirenje spektral'nykh linij In III, Tl III i Pb IV*, *Zhurnal Prikladnoj Spektroskopii*, **66**, 753-757.

Dimitrijević, M. S., Sahal-Bréchet, S.: 2000, *STARK BROADENING OF F VI, Cl VII AND Kr VIII SPECTRAL LINES*, *Physica Scripta*, **61**, 319-322.

Dimitrijević, M. S., Tankosić, D.: 2000, *ON THE VARIATION OF STARK LINE SHIFTS WITHIN A GIVEN SPECTRUM IN THE CASE OF IRREGULAR ENERGY LEVEL STRUCTURE*, *Physica Scripta*, **62**, 177-182.

Jankov, S., Janot-Pacheco, E., Leister, N. V.: 2000, *FOURIER-DOPPLER IMAGING ANALYSIS OF LINE PROFILE VARIATIONS IN ZETA Oph*, *Astrophysical Journal*, **540**, 535.

Jevremović, D., Doyle, J. G., Short C. I.: 2000, *THE CONTRIBUTION OF THE MICRO-TURBULENT VELOCITY ON THE MODELLING OF CHROMOSPHERIC LINES IN LATE TYPE DWARFS*, *Astronomy and Astrophysics*, **358**, 575-582.

Kiss, Cs., Tóth, L. V., Moór, A., Sato, F., Nikolić, S., Wouterloot, J. G. A.: 2000, *LOW MASS CLOUDS IN THE CEPHEUS-CASSIOPEIA VOID I. KHAVTASSI 15*, *Astronomy and Astrophysics*, **363**, 755-766.

Milosavljević, V., Djeniže, S., Dimitrijević, M. S., Popović, L. Č.: 2000, *STARK BROADENING PARAMETERS OF THE Kr II AND Kr III SPECTRAL LINES* *Physical Review E*, **62**, 4137-4145.

Popović, L. Č., Dimitrijević, M. S.: 2000, *STARK BROADENING PARAMETERS FOR SPECTRAL LINES OF SINGLY-, DOUBLY- AND TRIPLY-CHARGED VANADIUM IONS*, *Physica Scripta*, **61**, 192-199.

Popović, G. M., Pavlović, R., Živkov, V.: 2000, *THE FIRST ORBITAL ELEMENTS FOR EIGHT BINARIES*, *Astron. Astrophys. Suppl. Series*, **144**, 211-217.

Skopal, A., Djurašević, G., Jones, A., Drechsel, H., Rovithis-Livaniou, H. and Rovithis, P.: 2000, *A PHOTOMETRIC STUDY OF THE ECLIPSING SYMBIOTIC BINARY AR PAVONIS*, *Month. Not. Roy. Astron. Soc.*, **311**, 225-233.

## THESES

Ćirković, M.: 2000, *GASEOUS GALACTIC HALOES AND Ly $\alpha$  ABSORPTION LINE SYSTEMS*, Ph. D. Thesis, State University of New York, Stony Brook, New York, USA.

Vranešević, N.: 2000, *KINEMATIKA MLEČNOG PUTA U SUNČEVOJ OKOLINI NA OSNOVU ANALIZE MODULA HELIOCENTRIČNIH BRZINA (MILKY WAY KINEMATICS IN SOLAR NEIGHBORHOOD ON THE BASIS OF THE HELIOCENTRIC VELOCITIES MODULE ANALYSIS)*, Magistarski rad (M. Sc. Thesis), Matematički Fakultet, Beograd

## ADDITIONAL REFERENCES

- Angelov, T.: 1993, *Bull. Obs. Astron. Belgrade* **148**, 1.
- Cardelli, J. A., Mayer, S.: 1997, *Astrophys. J. Lett.* **477**, L57.
- Cardelli, J. A., Sarage, B. D., Ebbets, D. C.: 1991, *Astrophys. J. Lett.* **383**, L23.
- Dimitrijević, M. S., Konjević, N.: 1980, *J. Quant. Spectrosc. Radiat. Transfer* **24**, 451.
- Dimitrijević, M. S., Kršljanin, V.: 1986, *Astron. Astrophys.* **165**, 269.
- Dimitrijević, M. S., Konjević, N.: 1987, *Astron. Astrophys.* **172**, 345.
- Fill, E. E., Schöning, T.: 1994, *J. Appl. Phys.* **76**, 1423.
- Griem, H. R., Moreno, J. C.: 1990, in: *X-RAY LASERS*, ed. G. Tallents, Institute of Physics, Bristol, 301.
- Kocer, D., Adelman, S. J., Bolcal, C., Mill, G.: 1993, In: *PECULIAR VERSUS NORMAL PHENOMENA IN A-TYPE AND RELATED STARS*, eds. M. M. Dworetzki, F. Castelli, R. Faraggiana, *ASP Conf. Series* **44**, 213.
- Lakićević, I. S., 1983, *Astron. Astrophys.* **127**, 37.
- Leckrone D. S., Wahlgren G. M., Johansson S. G., Adelman S. J.: 1993, in *Peculiar Versus Normal Phenomena in A-Type and Related Stars*, *ASP Conference Series*, **44**, eds. M. M. Dworetzky, F. Castelli and R. Faraggiana, p.42.
- Merrill, P. V.: 1956, *LINES OF THE CHEMICAL ELEMENTS IN ASTRONOMICAL SPECTRA*, Carnegie Inst. of Washington, Publication 610, Washington D. C.
- Moore, C. E., Minnaert, M. G. J., Houtgast, J.: 1966, *THE SOLAR SPECTRUM 2935Å TO 8770 Å*, NBS Monographs 61, U. S. Department of Commerce, NBS, Washington D.C.
- Popović, G. M., Pavlović, R.: 1995, *Bull. Obs. Astron. Belgrade* **152**, 55.
- Protitch-Benishek, V., Benishek, Vl.: 2000, *CCD ASTROMETRIC OBSERVATIONS OF COMETS AT THE BELGRADE OBSERVATORY DURING 1998 - 2000 (I)*, *Serbian Astronomical Journal*, **162**, 115-120
- Purić, J., Djenize, S., Labat, J., Platiša, M., Srećković, A., Čuk, M.: 1988, *Z. Phys. D* **10**, 431.
- Sadakane, K., Ueta, M.: 1989, *Publ. Astron. Soc. Japan* **41**, 279.

Trimble, V.: 1991, *THE ORIGIN AND ABUNDANCE OF THE CHEMICAL ELEMENTS REVISITED*, *Astron. Astrophys. Review*, **3**, 1.

van't Veer-Mennert, C., Couprie, M. F., Burkhart, C.: 1985, *Astron. Astrophys.* **146**, 139 (1985)

Zulević, D. J., Popović, G. M., Pavlović, R.: 2000, *MICROMETER MEASUREMENTS OF DOUBLE STARS (SERIES 52)*, *Serbian Astronomical Journal*, **161**, 25-37.



## 2. EQUIPMENT AND FACILITIES

In consequence of the economic situation after the NATO attack on Yugoslavia nothing could be purchased during 2000.

However within the contract of mutual compensation with Stevan Filipović, a wooden bridge between two wings on the roof of the main Observatory's building has been installed, as well as a number of different repairs effected.

"CENTER" - Belgrade, sponsored the publishing of Publ. Astron. Obs. Belgrade Nos. 66 and 68.

Predrag Marčeta ("MARČETING" - Beograd) sponsored the reparation of the chimney on the main Observatory's building.

ŽTP - Beograd (Svetolik Kostadinović) sponsored two railway tickets for international scientific collaboration.

JAT sponsored 50% of Belgrade – Moscow tickets price for 5 persons for JENAM meeting in Moscow.

### 3. BUDGET

#### INCOMES IN DINARS IN THE PERIOD JAN. - DEC. 2000

##### I PUBLIC INCOMES

- |  |              |
|--|--------------|
| 1. From the Ministry of Science and Technology of Serbia:  |              |
| 1.1 for the project "Astrometrical, Astrodynamical and<br>Astrophysical Researches" .....                              | 3 692 639.00 |
| 1.2 for the Time Keeping and Geographic Coordinate<br>Determination Service .....                                      | 444 160.00   |
| 1.3 other incomes from the same Ministry .....   | 502 222.70   |
| 2. From the Federal Ministry for Development, Science and<br>Environment Protection:                                   |              |
| 2.1 for the project "Multidisciplinary Investigations of Current<br>Earth Crust Movements on Yugoslav Territory" ..... | 47 065.00    |
| 2.2 support for diverse activities .....   | 3 000.00     |

##### II INCOMES FROM RENDERING SERVICES INSIDE YUGOSLAVIA

- |                               |           |
|-------------------------------|-----------|
| 1. Judiciary expertises ..... | 11 548.00 |
|-------------------------------|-----------|

##### III OTHER SPECIAL INCOMES

- |   |           |
|---|-----------|
| 1. Revenues from the work market (refunds for the trainees) ..... | 45 949.73 |
| 2. Revenues from the interest rates .....                         | 1 037.22  |
| 3. Extraordinary revenues .....                                   | 8 904.00  |

TOTAL (I+II+III) .....	4 756 525.65
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## EXPENDITURES

### I EXPENCES ON MATERIAL, ENERGY, SPARE PARTS AND SMALL STOCKS

1. Expences on material small stocks, office stocks, sanitary stocks, journals and books	
1.1 Expences on small stocks .....	25 759.43
1.2 Expences on office stocks .....	63 781.10
1.3 Expences on sanitary stocks .....	16 699.00
1.4 Expences on journals and books for general services .....	35 758.50
2. Expences on energy and combustible	
2.1 Expences on coal; "KOPAONIK", Beograd .....	104 448.75
2.2 Expences on electricity; "ELEKTRODISTRIBUCIJA", Beograd ....	54 555.88
Total .....	301 003.66

### II EXPENDITURES ON SALARIES AND CONTRIBUTIONS CHARGING THE EMPLOYER

1. Net salaries .....	1 201 028.15
2. Taxes charging the employer .....	231 929.65
3. Contributions charging the employer .....	626 505.92
4. Annual vacation reimbursement, prizes, other supports of the staff ....	91 279.05
Total .....	2 150 742.77

### III EXPENDITURES ON THE EQUIPMENT PURCHASES IN 2000

Total .....	0.00
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### IV EXPENDITURES ON PRODUCTIVE SERVICES

1. Post and telephone services .....	69 844.11
2. Public transport expences .....	36 008.81
3. Investments and investment maintenance of the working means	
3.1 Repairing of four radiators, dismounting of the old irradiated heating tubes network and installing of a modern one "MARČETING" - Belgrade (Predrag Marčeta) .....	216 117.00

3.2 Upgrading and repairs of computer equipment, urgent interventions and current maintenance .....	31 214.00
4. Recycling of the printer toner cassette .....	15 465.80
5. Announcements in newspapers .....	198.00
6. Expences on consumed water .....	5 429.34
7. Expences on garbage removal .....	14 869.64
8. Accomodation of foreign guests .....	19 816.42
9. Expences on photo services .....	6 069.00
Total .....	585 118.67

## V EXPENDITURES ON NON PRODUCTIVE SERVICES

1. Job Contracts .....	151 950.04
2. Expenditures on printing of the Observatory's publications in 2000	
2.1 Serb. Astron. J. No 160; "PORTAL Co", Beograd .....	27 500.00
2.2 Publ. Astron. Obs. Belgrade No 67; "Banjac Grafika", Beograd ....	21 000.00
2.4 Serb. Astron. J. No 161; "PORTAL Co", Beograd .....	40 000.00
2.5 Publ. Astron. Obs. Belgrade No 69; "PORTAL Co", Beograd .....	56 000.00
4. Spanish language course for G. Damljanović .....	6 290.00
5. Expences on photocopying outside the Observatory .....	9 666.20
6. Expences on lawyer services .....	20 740.00
Total .....	333 146.24

## VI NONMATERIAL EXPENCES

1. Transport expences on business trips .....	239 925.95
2. Transport to work place for the staff-members .....	66 359.12
3. Meals for the staff-members .....	215 172.71
4. Binding of books and journals in hard cover .....	500.00
5. Representation .....	126 270.37
6. Payments transactions .....	15 670.36
7. Membership fees .....	3 100.00
8. Taxes .....	3 617.78
Total .....	670 616.29

VII EXPENCES ON TAXES AND CONTRIBUTIONS

1. Taxes on the building plot .....	2 445.06
2. Social insurance contributions charging the employer .....	711 552.02
Total .....	713 997.08

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GRAND TOTAL (I+II+III+IV+V+VI+VII)	4 754 623.71
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Incomes - Expenditures Difference	+ 1 901.94
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## 4. BIBLIOGRAPHY

### 4.1 ARTICLES PUBLISHED IN INTERNATIONAL SCIENTIFIC JOURNALS

1. Ćirković, M. M., Bostrom, N.: 2000, *COSMOLOGICAL CONSTANT AND THE FINAL ANTHROPIC HYPOTHESIS*, *Astrophysics and Space Science*, **274**, 675-687.
2. Ćirković, M. M., Lanzetta, K. M.: 2000, *ON THE SMALL-SCALE CLUSTERING OF Ly-ALPHA FOREST CLOUDS*, *Monthly Notices of the Royal Astronomical Society*, **315**, 473-478.
3. Ćirković, M., Samurović, S.: 2000, *COLUMN DENSITY DISTRIBUTION OF GALACTIC Ly-ALPHA ABSORPTION SYSTEMS*, *Astrophysics and Space Science*, **271**, 91-95.
4. Ćirković, M., Samurović, S., Djorić, A.: 2000, *COOLING vs. ABSORPTION RADII IN GALAXIES*, *Astrophysics and Space Science*, **274**, 867-875.
5. Dimitrijevič, M. S., Saha-Bresho, S.: 1999, *SHTARKOVSKOE USHIRENIE SPEKTRAL'NYKH LINIJ In III, Tl III I Pb IV*, *Zhurnal Prikladnoj Spektroskopii*, **66**, 753-757.
6. Dimitrijević, M. S., Sahal-Bréchet, S.: 2000, *STARK BROADENING OF F VI, Cl VII AND Kr VIII SPECTRAL LINES*, *Physica Scripta*, **61**, 319-322.
7. Dimitrijević, M. S., Tankosić, D.: 2000, *ON THE VARIATION OF STARK LINE SHIFTS WITHIN A GIVEN SPECTRUM IN THE CASE OF IRREGULAR ENERGY LEVEL STRUCTURE*, *Physica Scripta*, **62**, 177-182.
8. Jankov, S., Janot-Pacheco, E., Leister, N. V.: 2000, *FOURIER-DOPPLER IMAGING ANALYSIS OF LINE PROFILE VARIATIONS IN ZETA Oph*, *Astrophysical Journal*, **540**, 535.
9. Jevremović, D., Doyle, J. G., Short C. I.: 2000, *THE CONTRIBUTION OF THE MICRO-TURBULENT VELOCITY ON THE MODELLING OF CHROMOSPHERIC LINES IN LATE TYPE DWARFS*, *Astronomy and Astrophysics*, **358**, 575-582.

10. Kiss, Cs., Tóth, L. V., Moór, A., Sato, F., Nikolić, S, Wouterloot, J. G. A.: 2000, *LOW MASS CLOUDS IN THE CEPHEUS-CASSIOPEIA VOID I. KHAVTASSI 15*, *Astronomy and Astrophysics*, **363**, 755-766.
11. Milosavljević, V., Djeniže, S., Dimitrijević, M. S., Popović, L. Č.: 2000, *STARK BROADENING PARAMETERS OF THE Kr II AND Kr III SPECTRAL LINES* *Physical Review E*, **62**, 4137-4145.
12. Popović, L. Č., Dimitrijević, M. S.: 2000, *STARK BROADENING PARAMETERS FOR SPECTRAL LINES OF SINGLY-, DOUBLY- AND TRIPLY-CHARGED VANADIUM IONS*, *Physica Scripta*, **61**, 192-199.
13. Popović, G. M., Pavlović, R., Živkov, V.: 2000, *THE FIRST ORBITAL ELEMENTS FOR EIGHT BINARIES*, *Astronomy and Astrophysics Supplement Series*, **144**, 211-217.
14. Skopal, A., Djurašević, G., Jones, A., Drechsel, H., Rovithis-Livaniou, H. and Rovithis, P.: 2000, *A PHOTOMETRIC STUDY OF THE ECLIPSING SYMBIOTIC BINARY AR PAVONIS*, *Monthly Notices of the Royal Astronomical Society*, **311**, 225-233.

**4.2 CONTRIBUTED PAPERS IN PROCEEDINGS  
OF INTERNATIONAL CONFERENCES  
PUBLISHED BY INTERNATIONAL PUBLISHERS**

1. Bozhitchkovitch, Dj.: 1999, *WHICH TEMPERATURE SHOULD BE APPLIED IN THE REDUCTION OF THE ABSOLUTE OBSERVATIONS OF DECLINATIONS*, *Astronomiya i istoriya nauki*, ed. S. S. Grigoriyan, NII Mehaniki MGU im. M. V. Lomonosova, BGTU im. D. F. Ustinova, SPB FIIET RAN, Sankt Peterburg, 95-98.
2. Kun, M., Nikolić, S., Ábrahám, P.: 2000, *STAR FORMATION IN THE CEPHEUS FLARE: L1219 AND L1251*, in: *Star Formation from the small to the large scale*, *Proceedings of the 33rd ESLAB Symposium, ESA SP-445*, eds. F. Favata, A. A. Kaas and A. Wilson, 441-444.
3. Skuljan, Lj., Cottrell, P.: 2000, *PHOTOMETRY OF R CORONAE BOREALIS STARS DURING THE RECOVERY PHASES OF THEIR DECLINES*, in: *The impact of the large-scale surveys on pulsating star research*, *Proceedings of the IAU Colloquium No.176, ASP Conference Series 203*, eds. Szabados, L., Kurtz, D.W., 113-113.

### 4.3 ARTICLES IN NATIONAL SCIENTIFIC JOURNALS AND BOOKS

1. Bon, E., Stanić, N., Kubičela, A., Popović, L. Č.: 1999, *THE PROCEDURE OF AGN SPECTRA ELABORATION BY USING IRAF: THE CASE OF H alpha OF III Zw 2*, Journal of Research in Physics, **28**, 311-314.
2. Ćirković, M. M.: 2000, *KINEMATICS OF A HIGH-REDSHIFT GALAXY: A CASE STUDY*, Serbian Astronomical Journal, **161**, 5-8.
3. Ćirković, M. M.: 2000, *A NOTE ON SINGULARITIES AND THE ARROW OF TIME*, Serbian Astronomical Journal, **162**, 91-95.
4. Dimitrijević, M. S.: 2000, *JELENKO M. MIHAILOVIĆ, OSNIVAČ MODERNE SRPSKE SEIZMOLOGIJE, I LESKOVAC*, Naše Stvaranje, Leskovac, **XLVII**, No 1-2, 124-127.
5. Dimitrijević, M. S., Cvetković, Z., Dačić, M.: 1999, *BELGRADE MERIDIAN CIRCLE OBSERVATIONS OF STARS OF INTEREST FOR THE INVESTIGATIONS OF THE STARK BROADENING INFLUENCE ON STELLAR SPECTRAL LINES*, Journal of Research in Physics, **28**, 315-318.
6. Dimitrijević, M. S., Oskanjan, A. V.: 2000, *LIFE AND ACTIVITIES OF VASILJE OSKANJAN (1921-1989)*, Serbian Astronomical Journal, **161**, 101-115.
7. Dimitrijević, M. S., Sahal-Bréchet, S.: 1999, *ON THE STARK BROADENING OF Ar VIII SPECTRAL LINES*, Journal of Research in Physics, **28**, 287-290.
8. Dimitrijević, M. S., Sahal-Bréchet, S.: 1999, *ON THE STARK BROADENING OF NEUTRAL SILVER SPECTRAL LINES*, Journal of Research in Physics, **28**, 291-294.
9. Dimitrijević, M. S., Sahal-Bréchet, S.: 1999, *ON THE STARK BROADENING OF NEUTRAL CALCIUM SPECTRAL LINES*, Journal of Research in Physics, **28**, 295-298.
10. Dimitrijević, M. S., Sahal-Bréchet, S.: 2000, *STARK BROADENING PARAMETER TABLES FOR NEUTRAL CALCIUM SPECTRAL LINES II*, Serbian Astronomical Journal, **161**, 39-88.
11. Dimitrijević, M. S., Sahal-Bréchet, S.: 2000, *STARK BROADENING PARAMETER TABLES FOR In II*, Serbian Astronomical Journal, **162**, 57-90.
12. Djurašević, G., Erkapić, S.: 1999, *THE IMPORTANCE OF THE REALISTIC SPECTRAL ENERGY DISTRIBUTION IN THE LIGHT-CURVE ANALYSIS*, Journal of Research in Physics, **28**, 319-322.



13. Jovanović, P, Djurović, D.: 2000, *INTERACTION BETWEEN VARIABLE SOLAR UV RADIATION AND TROPOSPHERIC CIRCULATIONS AS A POSSIBLE CAUSE OF FIVE YEAR OSCILLATION IN EARTH ROTATION*, Serbian Astronomical Journal, **162**, 51-56.
14. Ninković, S.: 2000, *ON THE STAR ORBITS IN THE MILKY-WAY BULGE*, Serbian Astronomical Journal, **161**, 1-3.
15. Ninković, S., Nagl, M.: 2000, *A GALAXY STUDY BY USING THE LINE-DENSITY METHOD*, Serbian Astronomical Journal, **162**, 97-100.
16. Olević, D., Cvetković, Z., Dačić, M.: 2000, *KINEMATICS OF A SAMPLE OF VISUAL DOUBLE STARS*, Serbian Astronomical Journal, **162**, 101-103.
17. Olević, D., Popović, G., Jovanović, P.: 2000, *RECALCULATED ORBITS OF 8 DOUBLE STARS*, Serbian Astronomical Journal, **162**, 109-113.
18. Popović, G. M., Ninković, S.: 2000, *ORBIT ORIENTATION FOR BINARIES WITH ORBITAL INCLINATION  $i = 90^\circ$* , Serbian Astronomical Journal, **162**, 105-107.
19. Popović, L. Č., Dimitrijević, M. S.: 1999, *THE ELECTRON-IMPACT EFFECT IN Hg-Mn STARS: ASTROPHYSICAL IMPORTANT Zr III LINES*, Journal of Research in Physics, **28**, 303-305.
20. Popović, L. Č., Dimitrijević, M. S.: 2000, *STARK BROADENING PARAMETER TABLES FOR Kr II LINES*, Serbian Astronomical Journal, **161**, 89-95.
21. Popović, L. Č., Dimitrijević, M. S., Milovanović, N. D., Trajković, N.: 1999, *BEL-DATA - THE ASTRONOMICAL DATABASE OF ASTRONOMICAL OBSERVATORY: STARK BROADENING DATA INVESTIGATIONS*, Journal of Research in Physics, **28**, 307-309.
22. Popović, L. Č., Mediavilla, E. G., Pavlović, R. : 2000, *CAN DOUBLE-PEAKED LINES INDICATE MERGING EFFECTS IN AGNs?*, Serbian Astronomical Journal, **162**, 1-6.
23. Protitch-Benishek, V., Benishek, Vl.: 2000, *CCD ASTROMETRIC OBSERVATIONS OF COMETS AT THE BELGRADE OBSERVATORY DURING 1998 - 2000 (I)*, Serbian Astronomical Journal, **162**, 115-120
24. Protitch-Benishek, V., Protitch, M. B.: 2000, *NEWCOMB'S DATA ON ANCIENT ECLIPSES REVISITED*, Serbian Astronomical Journal, **162**, 127-133.
25. Sadžakov, S., Dačić, M., Cvetković, Z.: 2000, *LIFE AND SCIENTIFIC ACTIVITY OF DUŠAN ŠALETIĆ*, Serbian Astronomical Journal, **161**, 97-100.

26. Stanić, N., Popović, L. Č., Kubičela, A., Bon, E.: 2000, *THE  $H_{\beta}$  LINE SHAPE OF Akn 120*, Serbian Astronomical Journal, **162**, 7-34.
27. Tankosić, D., Popović, L. Č., Dimitrijević, M. S.: 1999, *THE ELECTRON-IMPACT BROADENING PARAMETERS FOR ASTROPHYSICALLY IMPORTANT LINES IN Co II SPECTRA*, Journal of Research in Physics, **28**, 299-302.
28. Tankosić, D., Popović, L. Č., Dimitrijević, M. S.: 2000, *STARK BROADENING OF HEAVY ELEMENT SPECTRAL LINES IN HOT STARS: Au II, Co II AND Ti II*, In: Long and Short Term Variability in Sun's History and Global Change, Ed. Wilfried Schroeder, Interdivisional Commission on History of the IAGA, European Section, Newsletters of the Interd. Comm. History, **39**, Science Edition, Bremen-Roennebeck, 242-246.
29. Trajkovska, V., Dimitrijević, M. S.: 2000, *LIFE AND WORKS OF MILAN NEDELJKOVIĆ (1857-1950)*, Serbian Astronomical Journal, **162**, 135-150.
30. Zulević, D. J., Popović, G. M., Pavlović, R.: 2000, *MICROMETER MEASUREMENTS OF DOUBLE STARS (SERIES 52)*, Serbian Astronomical Journal, **161**, 25-37.

#### 4.4 REVIEW ARTICLES AND MONOGRAPHIC TEXTS IN NATIONAL JOURNALS AND BOOKS

1. Dimitrijević, M. S.: 2000, *BELGRADE ASTRONOMICAL OBSERVATORY IN 1999*, Publ. Astron. Obs. Belgrade, **67**, 1-154.

#### 4.5 INVITED LECTURES AND PROGRESS REPORTS IN INTERNATIONAL CONFERENCES

1. Dimitrijević, M. S.: 2000, *STARK BROADENING DATA FOR ASTROPHYSICAL PLASMA INVESTIGATIONS*, Joint European and National Astronomy Meeting JENAM-2000, 9th European and 5th Euro-Asian Astronomical Society Conference, 'European Astronomy at the Turn of the Millennium', Moscow, Russia, May 29 - June 3, 2000, Abstracts, European Astronomical Society, Euro-Asian Astronomical Society, 206.
2. Dimitrijević, M. S.: 2000, *MILUTIN MILANKOVIĆ I ASTRONOMIJA*, Proceedings of the second Serbian-Bulgarian Astronomical Meeting, June 23-26, 2000, Zaječar, Serbia, Eds. M. S. Dimitrijević, L. Č. Popović, M. Tsvetkov, Publ. Astron. Obs. Belgrade, **67**, 39-49.

3. Dimitrijević, M. S.: 2000, *STARK BROADENING IN ASTROPHYSICS*, 20th Summer School and International Symposium on the Physics of Ionized Gases, 20th SPIG, September 4-8, 2000, Zlatibor, Yugoslavia, Contributed Papers and abstracts of invited lectures, topical invited lectures and progress reports, eds. Z. Lj. Petrović, M. M. Kuraica, N. Bibić, G. Malović, Institute of Physics, Faculty of Physics, University of Belgrade, Institute of Nuclear Sciences "Vinča", Belgrade, Yugoslavia, 471.
4. Dimitrijević, M. S.: 2000, *MODIFIED SEMIEMPIRICAL METHOD 1980-2000*, Proc. 3rd Belarussian-Yugoslav Symposium on Physics and Diagnostics of Laboratory and Astrophysical Plasma (PDP-III'2000), Minsk, September 17-21, 2000, eds. V. S. Burakov, M. S. Dimitrijević, Publ. Astron. Obs. Belgrade, **68**, 63.
5. Dimitrijević, M. S., Popović, L. Č., Milovanović, N.: 2000, *BELDATA - DATABASE OF BELGRADE ASTRONOMICAL OBSERVATORY*, Joint European and National Astronomy Meeting JENAM-2000, 9th European and 5th Euro-Asian Astronomical Society Conference, 'European Astronomy at the Turn of the Millennium', Moscow, Russia, May 29 - June 3, 2000, Abstracts, European Astronomical Society, Euro-Asian Astronomical Society, 176, 207.
6. Jevremović, D.: 2000, *BALMER LINES IN STELLAR FLARES*, 20th Summer School and International Symposium on the Physics of Ionized Gases, 20th SPIG, September 4-8, 2000, Zlatibor, Yugoslavia, Contributed Papers and abstracts of invited lectures, topical invited lectures and progress reports, eds. Z. Lj. Petrović, M. M. Kuraica, N. Bibić, G. Malović, Institute of Physics, Faculty of Physics, University of Belgrade, Institute of Nuclear Sciences "Vinča", Belgrade, Yugoslavia, 477.
7. Mihajlov, A. A., Dimitrijević, M. S., Ignjatović, Lj., Djurić, Z.: 2000, *DIELECTRONIC CHEMI-IONIZATION AND CHEMI-RECOMBINATION ATOMIC PROCESSES IN STELLAR ATMOSPHERES*, Joint European and National Astronomy Meeting JENAM-2000, 9th European and 5th Euro-Asian Astronomical Society Conference, 'European Astronomy at the Turn of the Millennium', Moscow, Russia, May 29 - June 3, 2000, Abstracts, European Astronomical Society, Euro-Asian Astronomical Society, 207.
8. Popović, L. Č.: 2000, *EMISIONE LINIJE SA DVA PIKA U SPEKTRIMA AKTIVNIH GALAKTIČKIH JEZGARA*, Proceedings of the second Serbian-Bulgarian Astronomical Meeting, June 23-26, 2000, Zaječar, Serbia, Eds. M. S. Dimitrijević, L. Č. Popović, M. Tsvetkov, Publ. Astron. Obs. Belgrade, **67**, 113-114.

#### 4.6 CONTRIBUTED PAPERS AND COMMUNICATIONS IN INTERNATIONAL CONFERENCES

1. Cvetković, Z, Perović, G.: 2000, *ISTRAŽIVANJE MODELA UTICAJA TEMPERATURE PRI ODREDJIVANJU RAZLIKA LONGITUDA IZ MERENJA ZENITNIH DALJINA ZVEZDA DANŽONOVIM ASTROLABOM*, Proceedings of the second Serbian-Bulgarian Astronomical Meeting, June 23-26, 2000, Zaječar, Serbia, Eds. M. S. Dimitrijević, L. Č. Popović, M. Tsvetkov, Publ. Astron. Obs. Belgrade, **67**, 9-12.
2. Ćirković, M. M.: 2000, *IS THERE AN ARROW OF TIME AFTER ALL?*, Proceedings of the second Serbian-Bulgarian Astronomical Meeting, June 23-26, 2000, Zaječar, Serbia, Eds. M. S. Dimitrijević, L. Č. Popović, M. Tsvetkov, Publ. Astron. Obs. Belgrade, **67**, 13-18.
3. Dačić, M.: 2000, *SVODJENJE BOŠKOVIĆEVIH ASTROGEODETSKIH ODREĐIVANJA NA SISTEM FK5*, Proceedings of the second Serbian-Bulgarian Astronomical Meeting, June 23-26, 2000, Zaječar, Serbia, Eds. M. S. Dimitrijević, L. Č. Popović, M. Tsvetkov, Publ. Astron. Obs. Belgrade, **67**, 27-32.
4. Damljanović, G., De Biasi, M. S.: 2000, *THE ANALYSIS OF PIP AND BLZ LATITUDE DATA AND THE FREE DIURNAL NUTATION*, International Astronomical Union 24th General Assembly, Manchester 7-18 August 2000, Abstract Book, 147.
5. Damljanović, G., De Biasi, M. S.: 2000, *THE CHANGES OF PARAMETERS OF CHANDLER NUTATION AND ANNUAL OSCILLATION BY USING FEW KINDS OF POLAR MOTION DATA*, Abstracts, Journées 2000 "Systèmes de Référence Spatio-Temporels", "J2000, a fundamental epoch for origins of reference systems and astronomical models", September 18-20 2000, Paris Observatory, 4.
6. Damljanović, G., Pejović, N.: 2000, *THE BELGRADE Z-TERM FOR THE PERIOD 1949-1985 AFTER NEW REDUCTION OF BLZ LATITUDE DATA*, Proceedings of the second Serbian-Bulgarian Astronomical Meeting, June 23-26, 2000, Zaječar, Serbia, Eds. M. S. Dimitrijević, L. Č. Popović, M. Tsvetkov, Publ. Astron. Obs. Belgrade, **67**, 33-38.
7. Dimitrijević, M. S.: 2000, *ON THE STARK BROADENING PARAMETERS FOR SOLAR PLASMA RESEARCH*, Joint European and National Astronomy Meeting JENAM-2000, 9th European and 5th Euro-Asian Astronomical Society Conference, 'European Astronomy at the Turn of the Millennium', Moscow, Russia, May 29 - June 3, 2000, Abstracts, European Astronomical Society, Euro-Asian Astronomical Society, 117.

8. Dimitrijević, M. S., Popović, L. Č., Milovanović, N.: 2000, *STARK BROADENING EFFECT AND ZIRCONIUM CONFLICT PROBLEM*, 15th Int. Conference on Spectral Line Shapes, Berlin, 10-14 July 2000, Physikalisch-Technische Bundesanstalt, Braunschweig und Berlin, 34.
9. Dimitrijević, M. S., Sahal-Bréchet, S.: 2000, *A PROJECT FOR LARGE - SCALE STARK BROADENING DATA CALCULATION: Cd I*, International Astronomical Union 24th General Assembly, Manchester 7-18 August 2000, Abstract Book, 136.
10. Djurašević, G., Erkapić, S.: 2000, *GRAVITY DARKENING IN SEMI-DETACHED BINARY SYSTEMS TT AURIGAE*, Proceedings of the second Serbian-Bulgarian Astronomical Meeting, June 23-26, 2000, Zaječar, Serbia, Eds. M. S. Dimitrijević, L. Č. Popović, M. Tsvetkov, Publ. Astron. Obs. Belgrade, **67**, 63-67.
11. Djurašević, G., Rovithis-Livaniou, H., Rovithis, P., Georgiades, N., Erkapić, S.: 2000, *ANOMAL GRAVITY-DARKENING OR SPOT ACTIVITY IN LT Her?*, 20th Summer School and International Symposium on the Physics of Ionized Gases, 20th SPIG, September 4-8, 2000, Zlatibor, Yugoslavia, Contributed Papers and abstracts of invited lectures, topical invited lectures and progress reports, eds. Z. Lj. Petrović, M. M. Kuraica, N. Bibić, G. Malović, Institute of Physics, Faculty of Physics, University of Belgrade, Institute of Nuclear Sciences "Vinča", Belgrade, Yugoslavia, 501-506.
12. Djurašević, G., Rovithis-Livaniou, H., Rovithis, P. and Milovanović, N.: 2000, *GRAVITY DARKENING IN SEMI-DETACHED BINARY SYSTEMS*, 9th European and 5th Euro-Asian Astronomical Society Conference 'European Astronomy at the Turn of the Millennium', May 29 - June 3, Moscow, Russia, Abstracts, European Astronomical Society, Euro-Asian Astronomical Society, 74.
13. Dugić, M., Raković, D., Ćirković, M. M.: 2000, *ON A PHYSICAL METATHEORY OF CONSCIOUSNESS*, Proceedings of the 3rd International Conference on Cognitive Science: New Science of Consciousness, Ljubljana, Slovenia, October 17-19, 2000, ed. I. Kononenko, Information Society, Ljubljana, 29-33.
14. Knežević, Z., Milani, A.: 2000, *ASTEROID SYNTHETIC PROPER ELEMENTS*, In: 5th Humboldt Coll. Cel. Mech.: New Developments in the Dynamics of Planetary Systems. Program and Abstracts, 49-50.
15. Marković, S.: 2000, *LINEAR OPTICAL POLARIZATION OF EW Lac IN 1981-1992*, 20th Summer School and International Symposium on the Physics of Ionized Gases, 20th SPIG, September 4-8, 2000, Zlatibor, Yugoslavia, Contributed Papers and abstracts of invited lectures, topical invited lectures and progress reports, eds. Z. Lj. Petrović, M. M. Kuraica, N. Bibić, G. Malović, Institute of Physics, Faculty of Physics, University of Belgrade, Institute of Nuclear Sciences "Vinča", Belgrade, Yugoslavia, 497.

16. Mihajlov, A. A., Dimitrijević, M. S., Ignjatović, Lj. M., Vasiljević, M. M.: 1997, *CHEMI-IONIZATION AND CHEMI-RECOMBINATION RATE COEFFICIENTS FOR STELLAR ATMOSPHERES CONDITIONS*, Proceedings Supplement of Balkan Physics Letters, Vol. 5, Part 1, 92-95.
17. Milosavljević, V., Dimitrijević, M. S., Djeniže, S., Popović, L. Č.: 2000, *STARK SHIFT OF SEVERAL Kr II LINES*, Proceedings of the second Serbian-Bulgarian Astronomical Meeting, June 23-26, 2000, Zaječar, Serbia, Eds. M. S. Dimitrijević, L. Č. Popović, M. Tsvetkov, Publ. Astron. Obs. Belgrade, **67**, 99-103.
18. Milosavljević, V., Dimitrijević, M. S., Djeniže, S., Popović, L. Č.: 2000, *STARK WIDTHS AND SHIFTS OF THE Kr III SPECTRAL LINES*, 15th Int. Conference on Spectral Line Shapes, Berlin, 10-14 July 2000, Physikalisch-Technische Bundesanstalt, Braunschweig und Berlin, 33.
19. Milosavljević, V., Dimitrijević, M. S., Djeniže, S., Popović, L. Č.: 2000, *2000, THE Kr II SPECTRAL LINES STARK WIDTHS*, Proc. 3rd Belarussian-Yugoslav Symposium on Physics and Diagnostics of Laboratory and Astrophysical Plasma (PDP-III'2000), Minsk, September 17-21, 2000, eds. V. S. Burakov, M. S. Dimitrijević, Publ. Astron. Obs. Belgrade, **68**, 119.
20. Milosavljević, V., Dimitrijević, M. S., Djeniže, S.: 2000, *STARK WIDTHS IN THE Ne IV SPECTRUM*, 20th Summer School and International Symposium on the Physics of Ionized Gases, 20th SPIG, September 4-8, 2000, Zlatibor, Yugoslavia, Contributed Papers and abstracts of invited lectures, topical invited lectures and progress reports, eds. Z. Lj. Petrović, M. M. Kuraica, N. Bibić, G. Malović, Institute of Physics, Faculty of Physics, University of Belgrade, Institute of Nuclear Sciences "Vinča", Belgrade, Yugoslavia, 277.
21. Milovanović, N., Dimitrijević, M. S., Popović, L. Č.: 2000, *STARK BROADENING EFFECT IN HOT STAR ATMOSPHERES: TI II*, International Astronomical Union 24th General Assembly, Manchester 7-18 August 2000, Abstract Book, 136.
22. Milovanović, N., Dimitrijević, M. S., Popović, L. Č.: 2000, *CREATION OF DATABASE FOR STARK BROADENING PARAMETERS AT BELGRADE ASTRONOMICAL OBSERVATORY*, Proc. 3rd Belarussian-Yugoslav Symposium on Physics and Diagnostics of Laboratory and Astrophysical Plasma (PDP-III'2000), Minsk, September 17-21, 2000, eds. V. S. Burakov, M. S. Dimitrijević, Publ. Astron. Obs. Belgrade, **68**, 117.
23. Nikolić, S., Marković, S.: 2000, *SEARCH FOR A LONG - TERM TIME POLARIMETRIC VARIABILITY OF SOME LATE - TYPE STARS*, 20th Summer School and International Symposium on the Physics of Ionized Gases, 20th SPIG, September 4-8, 2000, Zlatibor, Yugoslavia, Contributed Papers and abstracts of invited

- lectures, topical invited lectures and progress reports, eds. Z. Lj. Petrović, M. M. Kuraica, N. Bibić, G. Malović, Institute of Physics, Faculty of Physics, University of Belgrade, Institute of Nuclear Sciences "Vinča", Belgrade, Yugoslavia, 493.
24. Ninković, S.: 1997, *ON SPHERICALLY SYMMETRIC MODELS OF STELLAR SYSTEMS*, Proceedings Supplement of Balkan Physics Letters, Vol. 5, Part 1, 88-91.
  25. Ninković, S.: 2000, *ANALIZA PODSISTEMA MLEČNOG PUTA*, Proceedings of the second Serbian-Bulgarian Astronomical Meeting, June 23-26, 2000, Zaječar, Serbia, Eds. M. S. Dimitrijević, L. Č. Popović, M. Tsvetkov, Publ. Astron. Obs. Belgrade, **67**, 105-108.
  26. Olević, D., Cvetković, Z.: 2000, *KINEMATIKA UZORKA OD 269 VIZUELNO DVOJNIH ZVEZDA*, Proceedings of the second Serbian-Bulgarian Astronomical Meeting, June 23-26, 2000, Zaječar, Serbia, Eds. M. S. Dimitrijević, L. Č. Popović, M. Tsvetkov, Publ. Astron. Obs. Belgrade, **67**, 109-111.
  27. Popović, L. Č., Milovanović, N., Dimitrijević, M. S.: 2000, *THE IMPORTANCE OF ELECTRON-IMPACT BROADENING IN HOT STAR ATMOSPHERES: THE CASE OF Zr II AND Zr III LINES*, Joint European and National Astronomy Meeting JENAM-2000, 9th European and 5th Euro-Asian Astronomical Society Conference, 'European Astronomy at the Turn of the Millennium', Moscow, Russia, May 29 - June 3, 2000, Abstracts, European Astronomical Society, Euro-Asian Astronomical Society, 99 (179).
  28. Popović, L. Č., Dimitrijević, M. S., Milovanović, N.: 2000, *BELDATA - AN ATOMIC DATABASE FOR ASTROPHYSICAL PURPOSE*, International Astronomical Union 24th General Assembly, Manchester 7-18 August 2000, Abstract Book, 136.
  29. Protitch-Benishek, V., Protitch, M. B.: 2000, *DATA REVISION OF BABYLONIAN AND ARABIAN LUNAR AND SOLAR ECLIPSE OBSERVATIONS USED IN NEWCOMB'S RESEARCHES*, International Astronomical Union 24th General Assembly, Manchester 7-18 August 2000, Abstract Book, 169.
  30. Simić, S., Milovanović, N., Dimitrijević, M. S., Popović, L. Č.: 2000, *THE ELECTRON-IMPACT EFFECT IN HOT STELLAR ATMOSPHERES: Nd II LINES*, 20th Summer School and International Symposium on the Physics of Ionized Gases, 20th SPIG, September 4-8, 2000, Zlatibor, Yugoslavia, Contributed Papers and abstracts of invited lectures, topical invited lectures and progress reports, eds. Z. Lj. Petrović, M. M. Kuraica, N. Bibić, G. Malović, Institute of Physics, Faculty of Physics, University of Belgrade, Institute of Nuclear Sciences "Vinča", Belgrade, Yugoslavia, 489.

31. Vince, I., Gopasyuk, O., Gopasyuk, S., Vince, O.: 2000, *THE OBSERVED Mn I 539.47 nm LINE PROFILES IN SOLAR PLAGES*, 20th Summer School and International Symposium on the Physics of Ionized Gases, 20th SPIG, September 4-8, 2000, Zlatibor, Yugoslavia, Contributed Papers and abstracts of invited lectures, topical invited lectures and progress reports, eds. Z. Lj. Petrović, M. M. Kuraica, N. Bibić, G. Malović, Institute of Physics, Faculty of Physics, University of Belgrade, Institute of Nuclear Sciences "Vinča", Belgrade, Yugoslavia, 507-509.
32. Stanich, M. N., Popovich, Ch. L., Bon, A. E.: 2000, *BROAD LINE REGIONS IN AGN: THE SHAPE OF HYDROGEN, Mg II AND C IV LINES*, Joint European and National Astronomy Meeting JENAM-2000, 9th European and 5th Euro-Asian Astronomical Society Conference, 'European Astronomy at the Turn of the Millennium', Moscow, Russia, May 29 - June 3, 2000, Abstracts, European Astronomical Society, Euro-Asian Astronomical Society, 110.
33. Tankosić, D., Popović, L. Č., Dimitrijević, M. S.: 2000, *STARK BROADENING OF HEAVY ELEMENT SPECTRAL LINES IN HOT STARS: Au II, Co II, Ti II AND Co III*, Joint European and National Astronomy Meeting JENAM-2000, 9th European and 5th Euro-Asian Astronomical Society Conference, 'European Astronomy at the Turn of the Millennium', Moscow, Russia, May 29 - June 3, 2000, Abstracts, European Astronomical Society, Euro-Asian Astronomical Society, 181.
34. Tankosić, D., Popović, L. Č., Dimitrijević, M. S.: 2000, *THE PROJECT FOR THE STARK BROADENING PARAMETER DETERMINATION WITHIN THE MODIFIED SEMIEMPIRICAL APPROACH: Ag II*, 15th Int. Conference on Spectral Line Shapes, Berlin, 10-14 July 2000, Physikalisch-Technische Bundesanstalt, Braunschweig und Berlin, 32.
35. Tankosić, D., Dimitrijević, M. S., Popović, L. Č.: 2000, *THE ELECTRON-IMPACT BROADENING PARAMETERS FOR Pd II SPECTRAL LINES*, International Astronomical Union 24th General Assembly, Manchester 7-18 August 2000, Abstract Book, 136.
36. Trajkovska, V.: 1997, *"COMETS, SHOOTING STARS AND METEORS", BY JELENKO MIHAJLOVIĆ FROM 1896*, Proceedings Supplement of Balkan Physics Letters, Vol. 5, Part 1, 84-87.
37. Trajkovska, V., Protić-Benishek, V.: 1997, *ASTRONOMY AMONG THE SERBS: FROM THE ANCIENT MANUSCRIPTS TO THE MODERN WORKS*, Proceedings Supplement of Balkan Physics Letters, Vol. 5, Part 1, 96-99.
38. Vince, O.: 2000, *PRIBLIŽNO ODREDJIVANJE OBLASTI LINEARNOSTI CCD KAMERE IZ SPEKTRALNIH LINIJA SUNCA*, Proceedings of the second Serbian-Bulgarian Astronomical Meeting, June 23-26, 2000, Zaječar, Serbia, Eds. M. S. Dimitrijević, L. Č. Popović, M. Tsvetkov, Publ. Astron. Obs. Belgrade, **67**, 129-132.



## 4.7 INVITED LECTURES IN NATIONAL CONFERENCES

1. Dimitrijević, M. S.: 2000, *KOSMOLOGIJA NA RAZMEDJI MILENIJUMA*, Zbornik predavanja sa Republičkog seminara o nastavi fizike, Društvo fizičara Srbije, 18-25.
2. Dimitrijević, M. S.: 2000, *ASTRONOMIJA U SRBA 1850 - 1918*, Prirodne i matematičke nauke u Srba 1850 - 1918, Novi Sad 30 i 31 oktobar 2000, Kratki sadržaji saopštenja, Univerzitet u Novom Sadu, Matica srpska, SANU - Ogranak u Novom Sadu, 4.
3. Ignjatović, Lj. M., Mihajlov, A. A., Dimitrijević, M. S.: 1999, *QUASIMOLECULAR BANDS IN OPTICAL SPECTRA OF WEAKLY IONIZED PLASMAS*, Journal of Research in Physics, **28**, 221.
4. Vince I.: 1999, *SPECTROSCOPIC INVESTIGATIONS DURING SOLAR ECLIPSES*, Journal of Research in Physics **28**, 219.

## 4.8 CONTRIBUTED PAPERS AND COMMUNICATIONS IN NATIONAL CONFERENCES

1. Bukvić, S., Labat, J. M., Tankosić, D.: 2000, *DIFUZIONI MEHANIZAM OPTOVOLTAIČNOG EFEKTA* 10. Kongres fizičara Jugoslavije, Vrnjačka Banja 27-29.3.2000, Zbornik radova, knjiga II, Jugoslovensko društvo fizičara, 643-646.
2. Dimitrijević, M. S.: 2000, *IVAN ATANASIJEVIĆ - PIONIR SRPSKE RADIOASTRONOMIJE*, 10. Kongres fizičara Jugoslavije, Vrnjačka Banja 27-29.3.2000, Zbornik radova, knjiga II, Jugoslovensko društvo fizičara, 1041-1043.
3. Djokić, M.: 2000, *PREDAVANJA JOSIFA PANČIĆA IZ ASTRONOMIJE U LIČEJU*, Prirodne i matematičke nauke u Srba 1850 - 1918, Novi Sad 30 i 31 oktobar 2000, Kratki sadržaji saopštenja, Univerzitet u Novom Sadu, Matica srpska, SANU - Ogranak u Novom Sadu, 4.
4. Knežević, Z.: 2000, *CHAOS IN THE MOTION OF ASTEROIDS*, In: Proceedings of the Symposium Contemporary Mathematics: 125 years of Faculty of Mathematics, eds: N. Bokan, S. Prešić, M. Kuzmanoski, S. Milanović - Lazarević and P. Mladenović, Faculty of Mathematics, University of Belgrade, 269-285.
5. Knežević, Z., Milani, A.: 2000, *SYNTHETIC THEORY OF ASTEROID MOTION: PROPER ELEMENTS AND CHAOS*, In: 10th Congress of Yugoslav Mathematicians; Abstracts, 97-98.
6. Milovanović, N., Popović, L. Č., Dimitrijević, M. S., Tankosić, D., Bon, E.: 2000, *UTICAJ SUDARA EMITERA SA ELEKTRONIMA NA OBLIK SPEKTRALNIH*

- LINIJA IZ ZVEZDANIH ATMOSFERA*, 10. Kongres fizičara Jugoslavije, Vrnjačka Banja 27-29.3.2000, Zbornik radova, knjiga II, Jugoslovensko društvo fizičara, 675-678.
7. Ninković, S., Trajkovska, V.: 2000, *NASTAVA GEOGRAFIJE U SRBIJI U DRUGOJ POLOVINI XIX VEKA*, Prirodne i matematičke nauke u Srba 1850 - 1918, Novi Sad 30 i 31 oktobar 2000, Kratki sadržaji saopštenja, Univerzitet u Novom Sadu, Matica srpska, SANU - Ogranak u Novom Sadu, 15.
  8. Pavlović, R., Knežević, Z.: 2000, *NEKHOROSHEV STABILITY OF ASTEROID MOTION*, In: 10th Congress of Yugoslav Mathematicians; Abstracts, 105.
  9. Protić-Benišek, V.: 2000, *KORENI I TRAGOVI: ASTRONOMSKI RADOVI IVANA I ILIJE MILOŠEVIĆA*, Prirodne i matematičke nauke u Srba 1850 - 1918, Novi Sad 30 i 31 oktobar 2000, Kratki sadržaji saopštenja, Univerzitet u Novom Sadu, Matica srpska, SANU - Ogranak u Novom Sadu, 17.
  10. Trajkovska, V., Ninković, S.: 2000, *JEDAN PREDLOG O REORGANIZACIJI TEHNIČKOG FAKULTETA OBJAVLJEN U "ODJEKU" 1891*, Prirodne i matematičke nauke u Srba 1850 - 1918, Novi Sad 30 i 31 oktobar 2000, Kratki sadržaji saopštenja, Univerzitet u Novom Sadu, Matica srpska, SANU - Ogranak u Novom Sadu, 15.

#### 4.9 THESES

1. Ćirković, M.: 2000, *GASEOUS GALACTIC HALOES AND  $Ly_{\alpha}$  ABSORPTION LINE SYSTEMS*, Ph. D. Thesis, State University of New York, Stony Brook, New York, USA.
2. Ćirković, M.: 2000, *GASEOUS GALACTIC HALOES AND  $Ly_{\alpha}$  ABSORPTION LINE SYSTEMS*, (Dissertation Abstract), Publications of the Astronomical Society of the Pacific, **112**, 1507.
3. Nataša Vranešević: 2000, *KINEMATIKA MLEČNOG PUTA U SUNČEVOJ OKOLINI NA OSNOVU ANALIZE MODULA HELIOCENTRIČNIH BRZINA*, Magistarski rad (M. Sc. Thesis), Matematički Fakultet, Beograd

#### 4.10 CIRCULARS

1. Benishek, Vl., Protitch-Benishek, V.: 2000, *CCD PRECISE ASTROMETRIC POSITIONS OF COMET C/1999 L3 (LINEAR)*, Minor Planet Circular No 38246.
2. Benishek, Vl., Protitch-Benishek, V.: 2000, *CCD PRECISE ASTROMETRIC POSITIONS OF COMET C/1999 S4 (LINEAR)*, Minor Planet Circular No 38248.

3. Benishek, Vl., Protitch-Benishek, V.: 2000, *CCD PRECISE ASTROMETRIC OBSERVATIONS OF MINOR PLANET 2000 DO1*, Minor Planet Circular No 38968.
4. Olević, D., Jovanović, P.: 2000, *NEW ORBITS; ADS 3317, 04357+1010; ADS 20331+4950*, IAU Commission 26 (Double stars) Information Circular **141**, 1 and 3.
5. Olević, D., Popović, G.: 2000, *NEW ORBITS; ADS 8239, 11369+1221; ADS 8539, 12244+2535*, IAU Commission 26 (Double stars) Information Circular **141**, 2.
6. Protitch-Benishek, V., Benishek, Vl.: 2000, *CCD PRECISE POSITIONS OF MINOR PLANETS 1999 RH<sub>27</sub> AND 1999 NS<sub>3</sub> OBSERVED FROM BELGRADE ASTRONOMICAL OBSERVATORY*, Minor Planet Circular No 37406.
7. Protitch-Benishek, V., Benishek, Vl.: 2000, *CCD PRECISE POSITIONS OF COMET C/1994 S<sub>4</sub> (LINEAR)*, Minor Planet Circular No 40741.

#### 4.11 CONTRIBUTIONS IN NEWSPAPERS, PROFESSIONAL AND POPULARIZING LITERATURE

1. Edi Bon, Dejan Urošević  
Totalno pomračenje Sunca 11. avgusta 1999. godine - Paličko jezero  
(The 11th August 1999 total Solar eclipse - Palić lake)  
Vasiona, No 1-3, 2000, 45.
2. Milan M. Ćirković  
O čudima i centrima spiralnih galaksija  
(On Miracles and Centers of Spiral Galaxies)  
Galaksija, No. 293, April 2000, 38.
3. Milan M. Ćirković  
Kosmološka konstanta - ključ sudbine univerzuma  
(Cosmological Constant - Key to the Fate of the Universe)  
Galaksija, No. 299, October 2000, 64.
4. Milan M. Ćirković  
Denis Šama (1926-1999)  
(Dennis Sciama (1926-1999))  
Vasiona, No 5, 2000, 116.
5. Miodrag Dačić  
Uredništvu "Politike"  
(To the Editorial board of "Politika")  
Rotary Club Beograd Stari grad, Bilten br. 29, 2.02.2000, 9.
6. Miodrag Dačić  
Izjava o početku proleća

(Information on the spring beginning)

Večernje novosti, 16.03.2000.

7. Miodrag Dačić  
Da li znate ...  
Kada počinje treći milenijum? u rubrici "Da li znate..."  
(Do you know...  
When starts the third millenium?)  
Mladi Fizičar (99/00) No 78 "O", 24.
8. Milan S. Dimitrijević  
Otkrivanje vasiona  
Hiparh - Premeravanje Mlečnog puta  
(The Discovering of the Universe  
Hipparcos - Measuring the Milky Way)  
Školarac, No. 35, January 2000, 18.
9. Milan S. Dimitrijević  
Astrologija - nauka 21. veka ili prevara - Prvi deo  
(Astrology - the science of the 21<sup>st</sup> century or fraud)  
Rotary Club Beograd Stari grad, Bilten br. 29, 2.02.2000, 2.
10. Milan S. Dimitrijević  
Otkrivanje vasiona  
Najbliže zvezde  
(Discovering of the Universe  
The closest stars)  
Školarac, No. 36, February 2000, 18.
11. Milan S. Dimitrijević  
Predavanje prof. Dimitrijevića od 8. marta 2000. godine  
Da li bolesti mogu da dodju iz kosmosa?  
(The lecture of Prof. Dimitrijević from 8th March 2000  
May deseases come from space?)  
Rotary Club Beograd Stari grad, Bilten br. 35, 15.03.2000, 6.
12. Milan S. Dimitrijević  
Otkrivanje vasiona  
Koliko zvezda možemo da vidimo noću  
(Discovering of the Universe  
How many stars we may see in the night time)  
Školarac, No. 37, March 2000, 18.
13. Milan S. Dimitrijević  
Otkrivanje vasiona  
Šta je sazveždje  
(Discovering of the Universe  
What is a constellation)

Školarac, No. 38, March (April) 2000, 18.

14. Milan S. Dimitrijević  
 Zašto je noćno nebo tamno?  
 (Why the night sky is dark?)  
 Bilten, Rotary Club Beograd Stari-Grad, No. 43, 10.05.2000, 2.
15. Milan S. Dimitrijević  
 Sudbina univerzuma  
 (The fate of the Universe)  
 Rotary Club Beograd Stari grad, Bilten No. 48, 14.06.2000, 2.
16. Milan S. Dimitrijević  
 Šta bi bilo ...  
 Da je sunce dva puta teže  
 (Objavljeno u Politikinom Zabavniku 21. februara 1997, str. 11.)  
 (What would happen...  
 If the Sun were two times heavier)  
 (Published in Politikin Zabavnik, 21 February 1997, p. 17)  
 Bilten, Rotary Club Belgrade Old City, No. 65, 11.10.2000, 5.
17. Milan S. Dimitrijević  
 Šta bi bilo ...  
 Da je sunce dva puta bliže centru galaksije  
 (Objavljeno u Politikinom Zabavniku 14. februara 1997, str. 50.)  
 (What would happen...  
 If the Sun were two times closer to the center of Galaxy)  
 (Published in Politikin Zabavnik, 14 February 1997, p. 50)  
 Bilten, Rotary Club Belgrade Old City, No. 65, 11.10.2000, 8.
18. Radomir Grujić  
 Kako sam posmatrao i doživeo pomračenje Sunca 11.08.1999  
 (How I observed the 11th August 1999 Solar eclipse and my impressions)  
 Vasiona, No 1-3, 2000, 64.
19. Ištvan Vince  
 Jedan osvrt na pomračenje Sunca od 11. 8. 1999. god.  
 (A retrospect on the total Solar eclipse of the August 11th, 1999.)  
 Vasiona, No 1-3, 2000, 1.
20. Milan S. Dimitrijević  
 Otkrivanje vasiona  
 Promenljive zvezde  
 (Discovering of the Universe  
 Variable stars)  
 Školarac, No. 39, May 2000, 18.
21. Milan S. Dimitrijević  
 Otkrivanje vasiona

- Zvezde patuljci i zvezde džinovi  
(Discovering of the Universe  
Dwarf and Giant Stars)  
Školarac, No. 40, June 2000, 18.
22. Milan S. Dimitrijević  
Stonhendž - Opservatorija kamenog doba  
(Stonehenge - Observatory in the stone age)  
Rotary club Beograd Stari grad, Bilten br. 59, 30.08.2000, 7.
23. Milan S. Dimitrijević  
Malo poezije  
(Some Poetry)  
Vasiona, No 5, 2000, 130.
24. Nenad Milovanović  
Treća Jugoslovenska konferencija o obliku spektralnih linija  
(Third Yugoslav Conference on Spectral Line Shapes)  
Vasiona, No 5, 2000, 124.
25. Luka Č. Popović  
Gravitaciona sočiva  
(Gravitational lenses)  
Vasiona, No. 4, 2000, 73
26. Luka Č. Popović  
(Ne)mirno Sunce  
(Un)quiet Sun  
Galaksija, No. 297, August 2000, 27
27. Luka Č. Popović  
Jupiterov 17 satelit  
(The 17th satellite of Jupiter)  
Galaksija, No. 298, September 2000, 17

#### 4.12 TRANSLATIONS

1. Pol Dejvis  
Poslednja tri minuta  
(Last three minutes)  
(translated by Milan M. Čirković)  
Published by Izdavački atelje "Polaris", March/April 2000.

#### 4.13 INTERVIEWS

1. Slobodanka Andrić  
Priča o kalendaru  
Tri fascinantne nule  
(The story on the calendar  
Three fascinating zeros)  
Milan S. Dimitrijević  
Politika, 6.01.2000, 20
  
2. Milorad Daničić  
Nižu se dani, nedelje...  
(Days weeks pass...)  
(Miodrag Dačić)  
Magazin Politika, No 120, 16.01.2000, 28
  
3. Stanislav Ostrovski  
Parada planeta  
(Parade of planets)  
(Milan S. Dimitrijević)  
Svest, No 7, 2000, 46.
  
4. Slobodanka Andrić  
Nova kometa na našem nebu - LINEAR slabašnog sjaja  
(New comet on our sky - LINEAR of weak brightness)  
(Vojislava Protić - Benišek)  
Politika 30.07.2000, 18.
  
5. Saša Vazić  
Omnia in numero et mensura  
(Milan S. Dimitrijević)  
Rotary club Beograd Stari grad, Bilten br. 59, 30.08.2000, 3.
  
6. Stanko Stojiljković  
Opsada vanzemaljaca  
(Besieged by extra-terrestials)  
(Milan S. Dimitrijević)  
Politika, 17.09.2000, 33

#### 4.14 ARTICLES IN NEWSPAPERS ON ASTRONOMICAL OBSERVATORY, ITS ACTIVITY AND ACTIVITY OF ITS FELLOWS

1. Branka Djurišić  
Porota NT  
(NT Jury)  
(Vojislava Protić - Benišek)  
Nedeljni Telegraf, 29.12.1999, 4.
2. Stanislav Cvetković  
Kada je 2000. godina  
Zašto ne bismo dvaput slavili  
(When is 2000th year  
Why we could not celebrate twice)  
(Milan Dimitrijević)  
Politika, 9.01.2000, 29.
3. Branka Djurišić  
Porota NT  
(NT Jury)  
(Vojislava Protić - Benišek)  
Nedeljni Telegraf, 19.01.2000, 4.
4. Branka Djurišić  
Porota NT  
(NT Jury)  
(Vojislava Protić - Benišek)  
Nedeljni Telegraf, 26.01.2000, 4.
5. Slavica Živanović  
Astrologija nije gatanje  
(Astrology is not soothsaying)  
(Milan Dimitrijević)  
Rotary Club Beograd Stari grad, Bilten br. 29, 2.02.2000, 7.
6. Z. Radisavljević  
Numizmatička zbirka Sergija Dimitrijevića  
Umetnost kovanja novca  
Zavod za udžbenike i nastavna sredstva i SANU objaviće "Katalog numizmatičke zbirke srednjovekovnog novca Srbije, Bosne i Bugarske". - Priznanje akademiku Dejanu Medakoviću  
Numismatic collection of Sergije Dimitrijević  
The art of coining  
Institution for text books and teaching equipments, SANU will publish "The catalogue of the numismatic collection of the medieval coins of Serbia, Bosnia and Bulgaria". - The recognition to academician Dejan Medaković



- (Milan Dimitrijević)  
Politika, 9.03.2000, 26
7. S. A. (Slobodanka Andrić)  
Juče u Opservatoriji na Zvezdari  
Obeležen Dan astronoma  
(Yesterday at Observatory on Zvezdara  
Celebrated Astronomers Day)  
(Sofija Sadžakov)  
Politika, 8.04.2000, 23.
8. Preporučujemo: Naučni program  
(We recomand: the Scientific programme)  
(Milan S. Dimitrijević)  
NIN, 6.04.2000, 63.
9. Branka Jakšić  
Neobična nebeska pojava neće izazvati kataklizmu  
Astronomi kategorični: Neće biti smaka sveta  
(Unusual celestial event will not provoke a cataclysm)  
Astronomers are decisives: The doomsday will not happen)  
(Milan S. Dimitrijević)  
Politika Ekspres, 4.05.2000, 3.
10. Branka Jakšić  
Šest planeta, pratilaca Sunca, danas poredjane u jednu ravan čine jedinstvenu sliku  
na nebu  
Sunce i Mesec štiti Zemlju  
Six planets, in Sun's company, today ordered in a plane make the unique picture  
on the sky  
Sun and Moon a shield for the Earth  
(Milan S. Dimitrijević)  
Politika Ekspres, 5.05.2000, 3.
11. D. R.  
Ot 23-26 yuni v Gamzigradska banya kraj Zajchar se provede vtorata Srbsko -  
Blgarska astronomicheska sreshta  
Prinos v razvitiето na naukata i strudnichestvoto  
From 23-26 June in Gamzigrad spa near Zajechar the second Serbian - Bulgarian  
astronomical meeting has taken place  
The contribution to the development of science and to the collaboration  
(Milan S. Dimitrijević)  
Bratstvo, Vestnik na Blgarskata narodnost v SR Yugoslaviya, Niš, 30.06.2000, 2.
12. M. Todorović  
Zvezde nad Vračarom  
(Stars above Vračar)

(Astronomical Observatory)

Politikin zabavnik, No. 2525, 30.06.2000, 4-7.

13. Jelena Milogradov - Turin

Par pogleda iz Horgoša

A couple of glances from Horgoš

(Ištvan Vince, Gojko Djurašević, Sanja Erkapić, Darko Jevremović, Zoran Knežević, Aleksandar Kubičela, Nenad Milovanović, Snežana Marković - Kršljanin, Vojislava Protić - Benišek, Veselka Trajkovska)

Vasiona No 1-3, 2000, 24.

14. Marko G. Popović

Dan Posle

(Jedan prikaz pomračenja Sunca 11. 8. 1999. posmatranog ispred Sportsko rekreativnog centra "Jezero" u Kikindi)

The day after

(A report on the 11th August total solar eclipse observed in front of the Sport Center "Jezero" in Kikinda)

(Milan S. Dimitrijević, Vesna Živkov, Luka Č. Popović, Ištvan Vince, Georgije Popović, Dragomir Olević, Predrag Jovanović, Rade Pavlović, Nataša Stanić, Jelisaveta Arsenijević, Tatjana Milovanov)

Vasiona No 1-3, 2000, 24.

15. Ratomirka Miler

Pomračenje u publikacijama Društva fizičara Srbije

(Eclipse in the publications of the Society of Physicists of Serbia)

(Ištvan Vince, Luka Č. Popović, Aleksandar Kubičela)

Vasiona No 1-3, 2000, 69.

16. Slobodanka Andrić

Nova kometa na našem nebu

LINEAR slabašnog sjaja

(A new comet in our sky

LINEAR has very weak brightness)

(Vojislava Protić - Benišek)

Politika, 30.07.2000, 18.

17. Director of Belgrade Observatory visits Armagh Observatory

(Milan S. Dimitrijević)

The Armagh Observer, Armagh (Northern Ireland), 3.08.2000

18. A. Cvijić

U susret izboru novih članova Srpske akademije nauka i umetnosti

Ko su kandidati

(Toward the election of new fellows of the Serbian Academy of Sciences and Arts

- Who are candidates)  
Politika 12.10.2000, 14
19. S. Stojanović  
Breša i za odabrane  
(A breach for the chosen too)  
Večernje novosti 25.10.2000, 10
20. A. Cvijić  
Izborna Skupština Srpske akademije nauka i umetnosti  
Novi "besmrtnici"  
(Electoral assembly of the Serbian Academy of Sciences and Arts  
New "immortals")  
Politika 27.10.2000, 18.
21. Petak 27. oktobra 2000. Danas na Sajmu  
(Friday 27 October 2000, Today on the fair)  
(Miodrag Dačić, Milan S. Dimitrijević, Luka Č. Popović)  
45 Medjunarodni sajam knjiga u Beogradu, 24-30. oktobra 2000.  
(45 International book fair in Belgrade, 24-30 October 2000)  
Bilten No 3, Friday 27. October 2000, 11.
22. Astronomska opservatorija  
(Astronomical Observatory)  
(Miodrag Dačić, Milan S. Dimitrijević, Luka Č. Popović)  
Katalog izdanja naučnoistraživačkih organizacija 1999/2000 45 Medjunarodni sa-  
jam knjiga, Beograd, oktobar 2000., Republika Srbija, Ministarstvo za nauku i  
tehnologiju, 5.
23. Astronomska opservatorija  
(Astronomical Observatory)  
(Miodrag Dačić, Milan S. Dimitrijević, Luka Č. Popović)  
Promocije na 45 Medjunarodnom sajmu knjiga, Beograd, 24.10-30.10 2000., Vlada  
Republike Srbije, Ministarstvo za nauku i tehnologiju, 5.
24. Slobodanka Andrić  
Vest koja je iznenadila naučni svet  
Otkriven novi Jupiterov satelit  
(A news which surprised scientific community  
Discovered a new satellite of Jupiter)  
(Luka Č. Popović)  
Politika, 29.10.2000, 21.
25. Nikola M. Božić  
Dvadeset pet godina astronomije u Valjevu

(Twenty five years of astronomy in Valjevo)  
(Vojislava Protić-Benišek)  
Vasiona, No. 4, 2000, 88

26. U ovom broju  
(In this number)  
(Milan S. Dimitrijević  
Darko Jevremović)  
Bulletin of the Rotary Club Belgrade - Old City, No 75, 20.12.2000
27. Vladimir Lepojević  
Simpozijum "Milanković - juče, danas, sutra"  
(Symposium "Milanković - yesterday, today, tomorrow")  
(Milan S. Dimitrijević, Luka Č. Popović, Nenad Milovanović, Miodrag Dačić, Zorica Cvetković, Veselka Trajkovska)  
Vasiona, No. 4, 2000, 90
28. Jelena Milogradov-Turin  
Nagrada "Zaharije Brkić" 1999. godine  
(The "Zaharije Brkić" Prize for 1999)  
(Zoran Knežević, Miodrag Dačić)  
Vasiona, No. 4, 2000, 95
29. Dejan Maksimović  
Prirodnjačko društvo "Gea" - Vršac  
(Naturalist Society "Gea" - Vršac)  
(Luka Č. Popović)  
Vasiona, No 5, 2000, 122.
30. Milan Jeličić  
Odloženo obeležavanje godišnjice  
(Adjourned anniversary celebration)  
(Milan Ćirković, Luka Č. Popović, Ištvan Vince, Miodrag Dačić, Milan S. Dimitrijević, Gojko Djurašević, Slobodan Jankov, Zoran Knežević, Slobodan Ninković, Georgije Popović, Dragomir Olević, Ivan Pakvor, Vojislava Protić-Benišek, Veselka Trajkovska, Zorica Cvetković, Djuro Božičković, Bora Jovanović, Gordana Gajić, Gordana Dakić, Stajka Novaković, Vladimir Savković, Slavica Pavić)  
Vasiona, No 5, 2000, 125.
31. Milan Jeličić  
Stalne personalne promene  
(Continual personal changes)  
(Luka Č. Popović)  
Vasiona, No 5, 2000, 126.

32. Ispravke

(Corrections)

(Nenad Milovanović, Luka Č. Popović)

Vasiona, No 5, 2000, 132.

33. Božidar D. Jovanović

Prirodne i matematičke nauke u Srba 1850-1918

(Natural and Mathematical Sciences with Serbs 1850-1918)

(Milan S. Dimitrijević)

Flogiston, No 10, 2000, 249.

## 5. LECTURES HELD BY THE OBSERVATORY FELLOWS AND GUESTS

### 5.1. LECTURES HELD AT THE ASTRONOMICAL OBSERVATORY

1. 19.04.2000  
Milan Ćirković  
Fizička eshatologija  
(Physical eshatology)
2. 26.04.2000  
Anatolij A. Mihajlov  
Uloga radijacionih, hemi-jonizacionih i hemi-rekombinacionih atomskih sudarnih procesa u zvezdanim atmosferama  
The role of radiative, chemi-ionization and chemi-recombination atomic collisional processes in stellar atmospheres
3. 3.05.2000  
Aleksandar Bogojević  
Novi model formiranja planetarnih sistema  
(A new model of planetary systems formation)
4. 10.05.2000  
Aleksandar Belić  
Skaliranje i univerzalnost gravitacione kondenzacije  
(Scaling and the universality of gravitational condensation)
5. 1.06.2000  
M. S. De Biasi  
The arclength method of analysis and reduction of astrometric VLBI data
6. 17.06.2000  
Milan S. Dimitrijević  
Astronomska opservatorija u Beogradu  
(Belgrade Astronomical Observatory)  
(For the students and professors of the secondary school from Bijeljina)
7. 13.09.2000  
Balša Terezić  
Separabilni potencijali u troosnim galaksijama  
(Separable potentials in three-axial galaxies)

8. 20.09.2000  
Milan S. Dimitrijević  
Opservatorija u Armagu  
(Armagh Observatory)
9. 27.09.2000  
Jelena Milogradov-Turin  
Medjunarodne astronomske olimpijade  
(International astronomical Olympiads)
10. 18.10.2000  
Veljko Vujičić  
O Njutnovim teoremama o uzajamnom privlačenju tela  
(On Newton's theorems on mutual attraction of bodies)
11. 27.11.2000  
Gotthard Richter, Petra Böhm  
Astrophysical observatory in Potsdam

## 5.2. LECTURES HELD BY THE OBSERVATORY'S FELOWS OUTSIDE THE ASTRONOMICAL OBSERVATORY

1. 4.01.2000  
Slobodan Jankov  
Doppler Imaging of non-radially pulsating stars  
L'Institut d'Astrophysique Spatiale, Orsay, France
2. 2.02.2000  
Milan S. Dimitrijević  
Astrologija - Nauka 21. veka ili prevara  
(Astrology -The Science of the 21<sup>st</sup> century or fraud)  
Rotary Club - Beograd Stari grad (Belgrade Old city)
3. 3.02.2000  
Silvana Nikolić  
Uvod u radioastronomiju  
(Introduction to radioastronomy)  
Research center Petnica, Valjevo
4. 3.02.2000  
Silvana Nikolić  
Kratak pregled najnovijih rezultata posmatračke radio astronomije  
(Short review of the recent results of observational radioastronomy)  
Research center Petnica, Valjevo
5. 7.02.2000  
Edi Bon

- Planete Suncevog sistema  
(Solar system planets)  
Research center Petnica, Valjevo
6. 8.02.2000  
Oliver Vince  
Sunce naša zvezda  
(The Sun – our star)  
Research center Petnica, Valjevo
7. 10.02.2000  
Edi Bon  
Astrofizicka spektroskopija  
(Astrophysical spectroscopy)  
Research center Petnica, Valjevo
8. 10.02.2000  
Oliver Vince  
Karakteristike CCD kamere  
(Characteristics of CCD camera)  
Research center Petnica, Valjevo
9. 10.02.2000  
Luka Č. Popović  
1. Belgrade Observatory  
2. Two peaks lines from some AGN - a possible indication of a merging system  
Astrophysical Institute, Potsdam, Germany
10. 23.2.2000.  
Ištvan Vince  
Spectral observation of Solar eclipse  
Eötvös Lorand University, Budapest, Hungary
11. 24.02.2000  
Milan M. Ćirković  
Antropicki principi u kosmologiji  
Anthropical principles in cosmology  
Institute of Physics of the University of Kragujevac
12. 4.03.2000  
Milan S. Dimitrijević  
Djordje Stanojević  
Evening of geography and astronomy, Radul Beg Konak, Zaječar
13. 6.03.2000.  
Ištvan Vince  
What we can learn from an eclipse  
XXI Regional Days of Physics, Debrecen, Hungary



14. 9.03.2000  
 Milan M. Ćirković  
 Rendgenska i ultraljubicasta astronomija: Medjuzvezdana materija  
 Roentgen and Ultraviolet astronomy: Interstellar matter  
 Research center Petnica, Valjevo
15. 10.03.2000  
 Milan M. Ćirković  
 Rendgenska i ultraljubicasta astronomija: Vangalaktički i kosmološki izvori  
 Roentgen and Ultraviolet astronomy: Extragalactic and cosmologic sources  
 Research center Petnica, Valjevo
16. 11.03.2000  
 Milan S. Dimitrijević  
 Da li bolesti mogu da dodju iz kosmosa?  
 (Could diseases come from space?)  
 Rotary club "Belgrade - Old city"
17. 15.03.2000  
 Milan S. Dimitrijević  
 Postanak vasiona, hemijskih elemenata i života  
 (The origin of the Universe, chemical elements and life)  
 Faculty of Mechanical Engineering, Belgrade
18. 4.04.2000  
 Milan S. Dimitrijević  
 Pod sjajem zvezda I - Zašto je noćno nebo tamno?  
 (Under the star shining I - Why the night sky is dark?)  
 Rotary club "Leskovac", Leskovac
19. 5.04.2000  
 Milan M. Ćirković  
 Još samo teorijski moguće: Geometrija i topologija medjuzvezdanog putovanja  
 Only theoretically yet possible: Geometry and topology of an interstellar expedition  
 Exploratorium of the Research Center Petnica, Valjevo
20. 6.04.2000  
 Milan M. Ćirković  
 Medjuzvezdano putovanje u naucnofantasticnoj knjizevnosti  
 Interstellar expedition in science fiction literature  
 Exploratorium of the Research center Petnica, Valjevo
21. 11.04.2000  
 Milan M. Ćirković  
 Antropički princip i budućnost kosmosa  
 Anthropic principle and the future of the Universe  
 Institute of Physics, Zemun
22. 11.04.2000

Milan S. Dimitrijević  
Astronomy in Yugoslavia  
Aristotelos University of Salonica, Astronomical Observatory, Salonica, Greece

23. 13.04.2000  
Milan S. Dimitrijević  
Stark broadening effect in astrophysics  
University of Athens, Department of Physics, Section of Astrophysics, Astronomy and Mechanics, Athens, Greece
24. 26.04.2000  
Veselka Trajkovska  
Istraživanja u oblasti zvezdane astronomije na Beogradskoj opservatoriji  
Investigations in the stellar astronomy at Belgrade Observatory  
Institute of Physics, Faculty of Sciences, Skopje, Macedonia
25. 26.04.2000  
Veselka Trajkovska  
Neki rezultati posmatranja pomračenja Sunca od 11 avgusta 1999. godine u Jugoslaviji  
Some results of the 11th August 1999 Solar eclipse observations in Yugoslavia  
Institute of Physics, Faculty of Sciences, Skopje, Macedonia
26. 10.05.2000  
Milan S. Dimitrijević  
Zašto je noćno nebo tamno?  
(Why the night sky is dark?)  
Rotary Club Belgrade - Stari grad, Aeroklub, Beograd
27. 24.05.2000  
Milan S. Dimitrijević  
Konačna sudbina Univerzuma  
(The final fate of the Universe)  
Faculty of Protection at Work, Niš
28. 14.06.2000  
Milan S. Dimitrijević  
Sudbina univerzuma  
(The fate of the Universe)  
Rotary Club Belgrade - Stari grad, Beograd
29. 15.06.2000  
Oliver Vince  
Spektroskopija  
(Spectroscopy)  
Research center Petnica, Valjevo
30. 15.06.2000  
Oliver Vince

Spektralno određivanje spektralne klase zvezda  
(Spectral determination of the stellar spectral class)  
Research center Petnica, Valjevo

31. 16.06.2000  
Ištvan Vince  
Potpuno pomračenje Sunca 1999 - godinu dana posle  
(The total Solar eclipse in 1999 - a year after)  
XVIII Belgrade Astronomical Weekend, Planetarium, Belgrade
32. 16.06.2000  
Milan S. Dimitrijević  
Ima li života izvan Zemlje?  
(Does life exist outside the Earth?)  
XVIII Belgrade Astronomical Weekend, Planetarium, Belgrade
33. 17.06.2000  
Slobodan Ninković  
Mlečni put - naša Galaksija  
(The Milky Way - our Galaxy)  
XVIII Belgrade Astronomical Weekend, Planetarium, Belgrade
34. 17.06.2000  
Aleksandar Kubičela  
Akrecioni diskovi kod aktivnih galaktičkih jezgara  
(Accretion disks in Active Galactic Nuclei)  
XVIII Belgrade Astronomical Weekend, Planetarium, Belgrade
35. 17.06.2000  
Luka Č. Popović  
Gravitaciona sočiva  
(Gravitational lenses)  
XVIII Belgrade Astronomical Weekend, Planetarium, Belgrade
36. 4.08.2000  
Milan S. Dimitrijević  
Influence of collisions with charged particles on astrophysical spectra  
Armagh Observatory, Armagh (Northern Ireland)
37. 26.08.2000  
Ištvan Vince  
Aktivnost Sunca  
(Solar activity)  
Summer school of Physics and Astronomy "Zoo Palić 2000", Palić, Subotica
38. 2.09.2000  
Milan S. Dimitrijević  
Dostignuća u istraživanju Sunčevog sistema  
(Achievements in the Solar system investigations)

Summer astronomical meetings "Astronomy at the end of XX century", Planetarium, Belgrade

39. 9.09.2000

Aleksandar Kubičela

Sunce u XX veku

(The Sun in the 20th century)

Summer astronomical meetings "Astronomy at the end of XX century", Planetarium, Belgrade

40. 9.09.2000

Slobodan Ninković

Istraživanje zvezda i Mlečnog puta

(Investigations of stars and Milky Way)

Summer astronomical meetings "Astronomy at the end of XX century", Planetarium, Belgrade

41. 16.09.2000

Luka Č. Popović

Vangalaktička astronomija

(Extragalactic Astronomy)

Summer astronomical meetings "Astronomy at the end of XX century", Planetarium, Belgrade

42. 16.09.2000

Milan Ćirković

Početak i kraj univerzuma: Skica istorije savremene kosmologije

(The beginning and the end of the Universe: A sketch of the history of contemporaneous cosmology)

Summer astronomical meetings "Astronomy at the end of XX century", Planetarium, Belgrade

43. 13.10.2000

Milan S. Dimitrijević

Stark broadening data for plasma diagnostics, technological applications and inertial fusion plasma research

Workshop on plasma diagnostics and industrial applications of plasmas, The Abdus Salam International centre for theoretical physics, Trieste (Miramare), Italy

44. 16.10.2000

Milan S. Dimitrijević

Stark broadening - a problem in stellar spectroscopy

Institute for astronomy - University of Vienna, L. Figl - Observatory for Astrophysics, Vienna, Austria

45. 17.10.2000  
 Milan M. Ćirković  
 Formiranje galaksija i evolucija barionske materije  
 Formation of galaxies and baryonic matter evolution  
 Institute of Physics, Zemun
46. 17.10.2000.  
 Istvan Vince  
 Struktura Sunca  
 Solar structure  
 Fondation "Solaris" and Society for Culture, Kiskunhalas, Hungary
47. 19.10.2000  
 Slobodan Jankov  
 Imagerie Doppler de pulsations non-radiales  
 Université de Toulouse, Toulouse, France  
 (<http://webast.ast.obs-mip.fr/seminaires>)
48. 21.10.2000  
 Miodrag Đaćić  
 Merenje vremena i položaja  
 Measurement of time and position  
 Autumn astronomical course, Planetarium, Belgrade
49. 24.10.2000  
 Milan M. Ćirković  
 Strela vremena i kosmološki modeli  
 Arrow of time and cosmological models  
 Tribune of Young, The Centre of Culture, Novi Sad
50. 3.11.2000  
 Milan S. Dimitrijević  
 Is there life outside the Earth?  
 National library "Jovan Popović, Kikinda
51. 4.11.2000  
 Milan M. Ćirković  
 Teme iz filozofije nauke  
 Subjects in the Philosophy of Science  
 Exploratorium of Research center Petnica, Valjevo
52. 6.11.2000  
 Milan M. Ćirković, Edi Bon  
 Neokatastrofizam i arheološka evidencija  
 Neocatastrophism and archaeologic evidence  
 Research center Petnica, Valjevo
53. 10.11.2000.

- Ištvan Vince  
Struktura Sunca  
Solar structure  
Autumn astronomical course, Planetarium, Belgrade
54. 14.11.2000  
Slobodan Jankov  
Imagerie Doppler-Interferometrique de pulsations non-radiales  
Observatoire de Nice, Nice, France  
([http://www.obs-nice.fr/cvs/Seminaires/00\\_01\\_seminaires.html](http://www.obs-nice.fr/cvs/Seminaires/00_01_seminaires.html))
55. 23.11.2000  
Milan M. Ćirković  
Problem tamne materije  
Problem of dark matter  
Institute of Physics of the University of Kragujevac
56. 9.12.2000  
Nataša Stanić  
Vangalaktička astronomija  
Extragalactic astronomy  
Autumn astronomical course, Planetarium, Belgrade
57. 15.12.2000  
Milan M. Ćirković  
Kosmološki horizonti  
Cosmological horizons  
Institute of Physics, Zemun
58. 18.12.2000  
Milan M. Ćirković  
Potraga za životom van Zemlje  
Search for life out of Earth  
IV Astronomical meetings of Valjevo, Secondary school, Valjevo
59. 18.12.2000  
Ištvan Vince  
Problem manganove linije u spektru Sunca  
The problem of the manganese line in the Solar spectrum  
Department of Astronomy, Mathematical Faculty, Belgrade
60. 19.12.2000  
Interferometric-Doppler Imaging of stellar surface structure  
European Southern observatory, Garching  
(<http://www.eso.org/gen-fac/meetings/all-garching-meetings.html>)
61. 25.12.2000  
Luka Č. Popović  
Putovanje Vasionom

A journey through the Universe

Museum for Science and Technique of the Serbian Academy of Sciences and Arts.

## 6. TV AND RADIO EMISSIONS

1. M. Dačić je redovno dostavljao obdanice za Radio Beograd, Radio Suboticu i Radio Futog  
M. Dačić supplied regularly data on the length of day and night for Radio Belgrade, Radio Subotica and Radio Futog
2. Program za mlade: Korak ka nauci  
(O kalendaru i o početku trećeg milenijuma)  
M. S. Dimitrijević, voditelj Marija Mišić  
Radio Beograd I, 2.01.2000 9h - 10h  
Programme for young: A step toward the science  
(On the calendar and on the beginning of the third millenium)  
M. S. Dimitrijević, emission host Marija Mišić  
Radio Beograd I, 2.01.2000 9h - 10h
3. Muzika koju volim  
(O kraju II i početku III milenijuma i o Astronomskoj opservatoriji)  
V. Protić - Benišek, voditelj Jovan Pavliček  
TV Beograd I, 3.02.2000 23h 15m - 24h  
The music I love  
(On the end of the 2nd and the beginning of the 3rd millenium and on the Astro-  
nomical Observatory)  
V. Protić - Benišek, emission host Jovan Pavliček  
TV Belgrade I, 3.02.2000 23h 15m - 24h
4. Vreme radoznalosti  
(Akademik V. V. Mišković i Astronomska opservatorija u Beogradu)  
V. Protić - Benišek  
Radio Beograd I, 7.02.2000 8h  
The time of curiosity  
(Academician V. V. Mišković and Belgrade Astronomical Observatory)  
V. Protić - Benišek  
Radio Belgrade I, 7.02.2000 8h
5. Svet geografije: Beogradske opservatorije  
M. S. Dimitrijević, L. Č. Popović, voditelj Ljiljana Janković  
Timočka televizija, Zaječar, 13.02.2000, 17h - 17h 35m  
The World of Geography: Belgrade Observatories  
M. S. Dimitrijević, L. Č. Popović, voditelj Ljiljana Janković  
"Timočka" Television, Zaječar, 13.02.2000, 17h - 17h 35m
6. Repriza: Svet geografije: Beogradske opservatorije  
M. S. Dimitrijević, L. Č. Popović, voditelj Ljiljana Janković



- Timočka televizija, Zaječar, 14.02.2000, 18h 45m - 19h 20m  
 Reproduction: The World of Geography: Belgrade Observatories  
 M. S. Dimitrijević, L. Č. Popović, the emission host Ljiljana Janković  
 "Timočka" Television, Zaječar, 14.02.2000, 18h 45m - 19h 20m
7. Muzika koju volim (repriza)  
 (O kraju II i početku III milenijuma i o Astronomskoj opservatoriji)  
 V. Protić - Benišek, voditelj Jovan Pavliček  
 TV Beograd I, 24.02.2000  
 The music I love (reproduction)  
 (On the end of the 2nd and the beginning of the 3rd millenium and on the Astro-  
 nomical Observatory)  
 V. Protić - Benišek, emission host Jovan Pavliček  
 TV Belgrade I, 24.02.2000
  8. Vesti (Veče geografije i astronomije u Radul Begovom konaku, predavanje o Djordju Stanojeviću)  
 M. S. Dimitrijević, voditelj Ljiljana Janković  
 Timočka televizija, Zaječar, 4.03.2000  
 News (The geography and astronomy evening in Radul Beg "Konak", the lecture  
 on Djordje Stanojević)  
 M. S. Dimitrijević, the emission host Ljiljana Janković  
 "Timočka" Television, Zaječar, 4.03.2000
  9. TV Dnevnik 2 i 3 (Potpisivanje ugovora o objavljivanju kataloga numizmatičke  
 zbirke srpskog srednjevekovnog novca Sergija Dimitrijevića)  
 PM. S. Dimitrijević  
 TV Beograd 1, 8.03.2000  
 TV Diary 2 and 3 (Signing of the agreement on publishing the catalogue of the  
 Serbian medieval coins numismatic collection of Sergije Dimitrijević)  
 M. S. Dimitrijević  
 TV Belgrade 1, 8.03.2000
  10. Jutarnji program (Kratak razgovor o početku proleća)  
 Miodrag Dačić  
 Radio Beograd I, 20.03.2000 Morning Program  
 (Short talk on the beginning of the spring  
 M. Dačić  
 Radio Belgrade I, 20.03.2000
  11. Naučni leksikon (O nastanku kometa sa posebnim osvrtom na Halejevu kometu)  
 Milan S. Dimitrijević, urednik Ilija Cerović  
 TV Beograd 2, 13.04.2000, 16h30m.  
 Science Lexicon (On the origin of comets with special reference to on the Halley  
 comet)  
 Milan S. Dimitrijević, editor Ilija Cerović  
 TV Belgrade 2, 13.04.2000, 16h30m.

12. Emisija posvećena naučnoj fantastici  
Milan M. Ćirković  
Radio B2-92, 13.04.2000.  
Emission dedicated to Science Fiction  
Milan M. Ćirković  
Radio B2-92, 13.04.2000.
13. TV emisija "Napjaink" (Planete u nizu 5. 5. 2000. godine, Sunčeva budućnost i Uticaj Sunčevog zračenja na Zemljinu atmosferu)  
Ištvan Vince  
TV Novi Sad, 1.05.2000.  
TV emission "Napjaink" (Planets in a row on 5.05.2000, The future of the Sun and, The influence of Solar radiation on Earth's atmosphere)  
Ištvan Vince  
TV Novi Sad, 1.05.2000.
14. BK Parlament (Poredjane planete)  
Ištvan Vince  
BK Televizija, Beograd, 3.05.2000.  
BK Parliament (Lined up planets)  
Ištvan Vince  
BK Television, Belgrade, 3.05.2000.
15. Nauka, Tehnologija, Privreda (O vasioni u kojoj će se zvezde ugasiti)  
Milan S. Dimitrijević, urednik Gordan Ranitović  
TV Beograd 1, 2.07.2000, 17h30m.  
Science, Technology, Economy (On the Universe once the stars are extinguished)  
Milan S. Dimitrijević, editor Gordan Ranitović  
TV Belgrade 1, 2.07.2000, 17h30m.
16. Prilog o erupcijama na Suncu koje izazivaju poremećaje na Zemlji  
Ištvan Vince  
TV Studio B, Beograd, 15.07.2000.  
A contribution concerning eruptions causing disturbances on the Earth  
Ištvan Vince  
TV Studio B, Belgrade, 15.07.2000.
17. Iz dana u dan (Erupcije na Suncu i njihov uticaj na Zemlju)  
Ištvan Vince  
Radio Beograd II, 26.07.2000.  
From day to day (Solar eruptions and their influence on Earth)  
Ištvan Vince  
Radio Belgrade II, 26.07.2000.
18. Naučni leksikon: Postanak našeg univerzuma; Teorija Velikog praska  
Nataša Stanić  
RTV Srbije, Beograd, 12.09.2000.  
Scientific Lexicon: The origin of our Universe; The Big Bang theory

Nataša Stanić

RTV of Serbia, Belgrade, 12.09.2000.

19. Tokovi nauke (O 20 SPIG-u, astrofizičkoj plazmi i astronomskim spektrima)  
Milan S. Dimitrijević, voditelj Olivera Simić - Milošević  
Radio Beograd 1, 13.09.2000, 8h-9h.  
Ways of science (On 20th SPIG, astrophysical plasma and astronomical spectra)  
Milan S. Dimitrijević, emission host Olivera Simić - Milošević  
Radio Belgrade 1, 13.09.2000, 8h-9h.
20. Tokovi nauke (O 20 SPIG-u, astrofizičkoj plazmi i astronomskim spektrima) (reprodukcija)  
Milan S. Dimitrijević, voditelj Olivera Simić - Milošević  
Radio Beograd 1, 20.09.2000, 8h-9h.  
Ways of science (On 20th SPIG, astrophysical plasma and astronomical spectra)  
(reproduction)  
Milan S. Dimitrijević, emission host Olivera Simić - Milošević  
Radio Belgrade 1, 20.09.2000, 8h-9h.
21. Podnevni program (Razgovor o zanimljivostima iz astronomije, posebno o pomračenju Sunca avgusta 1999. godine)  
M. Dačić  
Radio Futog 30.10.2000  
Noon program (Talks on curiosities in astronomy, especially on the August 1999 Solar eclipse)  
M. Dačić  
Radio Futog 30.10.2000

## 7. PUBLISHING

### 7.1. EDITIONS OF THE ASTRONOMICAL OBSERVATORY

1. SERBIAN ASTRONOMICAL JOURNAL

- M. S. Dimitrijević - Editor in chief
- L. Č. Popović - Editor
- S. Ninković - member of the Editorial Board
- I. Vince - member of the Editorial Board

2. PUBLICATIONS OF THE ASTRONOMICAL OBSERVATORY OF BELGRADE

- M. S. Dimitrijević - Editor in chief
- L. Č. Popović - Editor
- G. Djurašević - member of the Editorial Board
- S. Jankov - member of the Editorial Board
- S. Ninković - member of the Editorial Board
- G. Popović - member of the Editorial Board
- I. Vince - member of the Editorial Board

3. BILTEN REFERATA ZA IZBOR U ZVANJA, Astronomske opservatorije (BULLETIN OF REPORTS ON CANDIDATES FOR ACADEMIC RANKS)

- M. S. Dimitrijević - Editor

### 7.2 EDITIONS WHEREIN FELLOWS OF ASTRONOMICAL OBSERVATORY ARE AT EDITORIAL BOARDS OR SCIENTIFIC COUNCILS

1. VASIONA (UNIVERSE)

- M. S. Dimitrijević - Editor in chief
- L. Č. Popović - member of the Editorial Board
- M. Dačić - member of the Editorial Board
- M. Ćirković - member of the Editorial Board

2. FLOGISTON časopis za istoriju nauke, Muzej nauke i tehnike (Journal for the history of science, Museum of science and technics), Beograd

- M. S. Dimitrijević - member of the Scientific Council

3. Biblioteka "DISSERTATIO" (Edition "DISSERTATIO") Zadužbina Andrejević (Andrejević foundation)

M. S. Dimitrijević - president of the Editorial Board and member of the Scientific Council of the foundation

3.1 Dr Biljana Trebješanin

PSIHOLOGIJA PATRIOTIZMA I OBRASCI SOCIJALIZACIJE

No. 101, 2000

3.2 Dr Dobrica Jovičić

TURIZAM I ŽIVOTNA SREDINA - KONCEPCIJA ODRŽIVOG TURIZMA

No. 102, 2000

3.3 Dr Ljiljana Jemuović

HRONIČNI VIRUSNI HEPATITIS C

No. 103, 2000

3.4 Dr Mira Čakar

ANTIDOTSKI OKSIMI - METODE ODREĐIVANJA I NJIHOVA PRIMENA

No. 104, 2000

3.5 Dr Vojkan Vukadinović

AUGMENTACIJE I SUPSTITUCIJE MOKRAĆNE BEŠIKE U DEČJOJ UROLOGIJI

No. 105, 2000

3.6 Dr Dimitrije Ponomarev

FIBEROPTIČKA BRONHOSKOPIJA U BAKTERIJSKOJ PNEUMONIJI

No. 106, 2000

3.7 Dr Marija S. Romić

SPECIFIČNI IMUNOGLOBULINI G I NJIHOVE POTKLASE

No. 107, 2000

3.8 Dr Marijan Novaković

VASKULARIZOVANI FIBULARNI GRAFT

No. 108, 2000

3.9 Dr Marina Savin

CIKLOSPORIN I HRONIČNO ODBACIVANJE BUBREGA

No. 109, 2000

- 3.10 Dr Srdjan Poštić  
OSTEOPENIČNE I OSTEOPOROTIČNE PROMENE U SEGMENTIMA MANDIBULA  
No. 110, 2000
- 3.11 Dr Ivan Mikov  
DELOVANJE HERBICIDA 2,4-DIHLORFENOKSISIRĀETNA KISELINA NA ZDRAVLJE LJUDI  
No. 111, 2000
- 3.12 Dr Dejan N. Lutovac  
UNIVERZALNI KOMPJUTERSKI SIGNALNO-SIGURNOSBNI SISTEM  
No. 112, 2000
- 3.13 Dr Lidija Amidžić  
PRIVIDNA SMRT - STRATEGIJA OPSTANKA  
No. 113, 2000
- 3.14 Dr Radojka Maletić  
APRIORNE METODE KLASIFIKACIJE OPŠTINA U SRBIJI  
No. 114, 2000
- 3.15 Dr Jasna Mihailović  
MAGNETNA REZONANCA U DIJAGNOSTICI NODUSNIH STRUMA  
No. 115, 2000
- 3.16 Dr Zoran Raspopović  
TRANSPORT ELEKTRONA U PROMENLJIVIM POLJIMA  
No. 116, 2000
- 3.17 Dr Nikola Nikolić  
NESTANAK DINOSAURUSA: VANADIJUM I BAKAR  
No. 117, 2000
- 3.18 Dr Miroslav Vukosavljević  
MEDIJATORI INFLAMACIJE U PROLIFERATIVNOJ VITREORETINOPATIJ  
No. 118, 2000

- 3.19 Dr Aleksandra Novakov-Mikić  
METODA PROCENE ISHODA INDUKCIJE PORODJAJA  
No. 119, 2000
4. SVEST  
Medisnet XXI, Beograd  
M. S. Dimitrijević - member of the Scientific council
5. JOURNAL OF RESEARCH IN PHYSICS  
Institute of Physics, Faculty of Sciences,  
University of Novi Sad, Novi Sad  
M. S. Dimitrijević - member of the international Editorial board
6. Biblioteka "ACADEMIA" (Edition "ACADEMIA") Zadužbina Andrejević (Andrejević foundation)  
M. S. Dimitrijević - member of the Scientific council of the foundation
- 6.1 Mr Dejana Djordjević  
MODELIRANJE NAGLO PROMENLJIVIH OTVORENIH TOKOVA  
No. 24, 2000
- 6.2 Mr Nedjo Danilović  
MORAL VOJSKE U GRADJANSKOM RATU  
No. 26, 2000
- 6.3 Mr Tina Milanović  
KVALITET VODA U AKUMULACIJAMA (MODELIRANJE, OCENJIVANJE,  
PRAĆENJE)  
No. 27, 2000
- 6.4 Mr Zoran V. Čvorović  
ODGOVOR NA HEMIJSKI AKCIDENT  
No. 28, 2000
- 6.5 Mr Aleksandar Jankulović  
MODELIRANJE I INTEGRACIJA PREDUZEĆA  
No. 29, 2000
- 6.6 Mr Snežana Mirkov  
UČENJE UČENJA  
No. 30, 2000

- 6.7 Mr Ljiljana Blagojević  
MODERNA KUĆA U BEOGRADU (1920-1941)  
No. 31, 2000
- 6.8 Mr Miloš Bjelović  
LIMFOGENO ŠIRENJE ADENOKARCINOMA ZAVRŠNOG DELA DEBELOG  
CREVA  
No. 32, 2000
- 6.9 Mr DRadomir Mandić  
ZAŠTITA PRIRODE I FAUNE KIČMENJAKA U SRBIJI  
No. 33, 2000
- 6.10 Mr Slobodan Puzović  
ŠUMSKA ŠLJUKA SCOLOPAX RUSTICOLA L. - POPULACIJE I LOVNI PRI-  
TISAK  
No. 34, 2000
- 6.11 Mr Jelena Radovanović  
NELINEARNA OPTIKA KVANTNIH JAMA  
No. 35, 2000
- 6.12 Mr Duško Marić  
POZORIŠNI MARKETING  
No. 36, 2000
- 6.13 Mr Branko Miladinović  
HIDROGEOLOGIJA REMBAS-A  
No. 37, 2000
- 6.14 Mr Milica Bogdanović  
OPASNOSTI OD HEMIJSKIH AKCIDENATA  
No. 38, 2000
- 6.15 Mr Nada Čemerlić - Adjić  
BETA BLOKATORI U AKUTNOM INFARKTU MIOKARDA  
No. 39, 2000



- 6.16 Mr Sanja Stanković  
APOLIPOPOTEIN E: KLINIČKI ZNAČAJ I DIJAGNOSTIKA  
No. 40, 2000
- 6.17 Mr Vera Kovačević  
OŠTEĆENJE SLUHA I LEKSIČKO - SEMANTIČKI RAZVOJ  
No. 41, 2000
- 6.18 Mr Anica Tucakov  
STRIP U SRBIJI (1975-1995)  
No. 42, 2000
- 6.19 Mr Jelena Dragičević  
ŽENE I KORONARNA BOLEST  
No. 44, 2000
- 6.20 Mr Jelena Ivanović - Šekularac  
PREDŠKOLSKE USTANOVE I KOMFOR  
No. 45, 2000
- 6.21 Mr Tatjana Manojlović  
POZORIŠNE BIBLIOTEKE I ARHIVI BEOGRADA  
No. 46, 2000
- 6.22 Mr Miomir Petrović  
OSLOBODJENJE DRAME  
No. 47, 2000
- 6.23 Mr Snežana Miladinović  
LEGAT - KROZ PRAVNU NAUKU I ZAKONODAVSTVO  
No. 48, 2000
- 6.24 Mr Dimitrije M. Nikolić  
RAST I RAZVOJ DECE SA URODJENIM SRČANIM MANAMA  
No. 49, 2000
- 6.25 Mr Karolina Smiljanić - Radotić  
KO KONTROLIŠE IMUNITET NA NIVOU GRAFTA?  
No. 37, 2000

7. Biblioteka "POSEBNA IZDANJA" (Edition "POSEBNA IZDANJA") Zadužbina Andrejević (Andrejević foundation)  
M. S. Dimitrijević - member of the Scientific Council of the Foundation
- 7.1 Mr Jelena Galić  
MONETARNA VLAST U ZEMLJAMA U TRANZICIJI  
No. 8, 2000
- 7.2 Mr Ivan Jovanović  
ULOGA HELICOBACTER PYLORI INFEKCIJE U FUNKCIONALNOJ DISPEPSIJI  
No. 9, 2000
- 7.3 Dr Dragiša Milošev  
IZBOR SISTEMA RATARENJA U PROIZVODNJI PŠENICE  
No. 10, 2000
- 7.4 Dr Rade Lapčević  
AGROEKOLOŠKI USLOVI PROIZVODNJE SEMENA KUKURUZA U JUŽNOM BANATU  
No. 11, 2000
- 7.5 Dr Živka Pržulj  
KULTURA I PREDUZETNIŠTVO  
No. 12, 2000
- 7.6 Dr Dragan Jovašević i Tarik Hašimbegović  
KRIVIČNA DELA FALSIFIKOVANJA  
No. 13, 2000
- 7.7 Mr Vera Trbić  
OPIS ALKOHOLIČARSKE PORODICE  
No. 14, 2000
- 7.8 Dr Nada Živanović  
KAKO DO TQM?  
No. 15, 2000
8. Nauka i život (Science and life), NIP Planeta, Beograd  
M. S. Dimitrijević - member of the Editorial council

9. Mladi fizičar "O", (Young Physicist "O")  
Mladi fizičar "S", (Young Physicist "S")  
M. S. Dimitrijević - member of the Editorial Council

### 7.3 REVIEWING

#### 7.3.1 THE PUBLICATION REVIEWING

1. Dr Dragan Gajić  
Udarni talasi u kosmosu  
Reviewers: Dr Božidar Milić, Dr Milan Dimitrijević  
Klub NT, Beograd 1999

#### 7.3.2 REVIEWING IN INTERNATIONAL JOURNALS

1. ICARUS  
Zoran Knežević (1)
2. CELESTIAL MECHANICS AND DYNAMICAL ASTRONOMY  
Zoran Knežević (1)
- 3 EARTH, MOON AND PLANETS  
Zoran Knežević (1)

## 8. ORGANIZATION OF CONFERENCES

1. II Serbian - Bulgarian Astronomical Meeting, Zaječar (Gamzigradska Banja), 23-26.06.2000.

Scientific Committee

Milan S. Dimitrijević, Co-Chairman

Miodrag Dačić

Luka Č. Popović

Ištvan Vince

Organizing Committee

Nenad Milovanović, Chairman

Edi Bon

Tanja Milovanov

Nataša Stanić

2. 15<sup>th</sup> International Conference on Spectral Line Shapes ICSLS XV, Berlin 10-14 July 2000.

International Scientific Committee

Milan S. Dimitrijević

3. 20<sup>th</sup> Summer School and International Symposium on the Physics of Ionized Gases, 20<sup>th</sup> SPIG, Zlatibor 4-8 September 2000.

Scientific Committee

Milan S. Dimitrijević

4. III Belarussian - Yugoslav Symposium on Physics and Diagnostics of Laboratory and Astrophysical Plasmas, Minsk 17-21 September 2000.

Scientific Organizing Committee

Milan S. Dimitrijević Co-chairman

L. Č. Popović

5. Balkan Meeting of Young Astronomers, Belogradchik, 25-29 September 2000.

Scientific Committee

Luka Č. Popović

6. School for Young Astronomers: Processing of Astronomical Images by MIDAS Software, Research Center Petnica, Valjevo, 21-24 November 2000.

Organizers

L. Č. Popović

E. Bon

O. Vince

## 9. MEMBERSHIP IN INTERNATIONAL AND NATIONAL SCIENTIFIC SOCIETIES AND BODIES

### 9.1. MEMBERSHIP IN INTERNATIONAL SCIENTIFIC SOCIETIES

#### 1. International Astronomical Union

J. Arsenijević

M.S. Dimitrijević (Commissions 14, 36)

G. Djurašević

D. Jevremović (since XXIV IAU General Assembly, Manchester 2000)

Z. Knežević (Commissions 7 (Member of the organizing committee), 15, 20)

A. Kubičela (Commission 12)

S. Ninković (Commissions 28, 33, 38)

I. Pakvor (Commission 8)

G. Popović (Commission 26)

V. Protić - Benišek (Commission 20)

S. Sadžakov (Commission 8, 19)

I. Vince (Commission 12)

#### 2. European Astronomical Society

J. Arsenijević

Z. Cvetković

M. Dačić

M.S. Dimitrijević

S. Ninković

L. Č. Popović

V. Protić - Benišek

S. Sadžakov

I. Vince

#### 3. Euro-Asian Astronomical Society

M.S. Dimitrijević

G. Djurašević

S. Ninković

L. Č. Popović

#### 4. Hungarian Astronomical Society

I. Vince

5. American Physical Society  
M. M. Ćirković
6. Astronomische Gesellschaft  
S. Ninković  
S. Sadžakov
7. International Occultation Timing Association - European Section  
V. Protić - Benišek
8. Astronomical Society of the Pacific  
M. Ćirković  
S. Ninković
9. Royal Astronomical Society of New Zealand  
Lj. Skuljan
10. Spaceguard Foundation  
(International non governmental organization for coordination of activities concerning PHA - Potentially Harzardeous Asteroids and NEO - Near Earth Objects)  
Z. Knežević  
In charge of the WWW site AstDyS (Asteroid Dynamic Site). Member of the AstDSyS and OrbFit [Software for Orbital Determination (Fit)] consortiums. Member of the DPS AAS and Spaceguard Foundation.
11. Division of Planetary Sciences of the American Astronomical Society  
Z. Knežević
12. British Society for the Philosophy of Science  
M. Ćirković
13. EuroScience Association  
L. Č. Popović
14. Philosophy of Science Association (Headquater in University of Chicago)
15. Public corps of the Hungarian Academy of Sciences  
I. Vince (since 6.12.2000)

## 9.2. MEMBERSHIP IN NATIONAL ASTRONOMICAL AND OTHER PROFESSIONAL SOCIETIES AND BODIES

1. Društvo astronoma Srbije (Society of astronomers of Serbia)
  - M. Ćirković, Secretary and member of the Directorial Board
  - I. Vince, member of the Directorial Board
  - L. Č. Popović, member of the Directorial Board
  
2. Nacionalni komitet za astronomiju (National Committee for Astronomy)
  - Z. Knežević, President
  - M. S. Dimitrijević
  - G. Djurašević
  - I. Vince,
  
3. Astronomsko društvo "Rudjer Bošković" (Astronomical society "Rudjer Bošković")
  - M.S. Dimitrijević, President
  - M. Dačić, member of the Presidential Board
  - Z.Knežević, member of the Presidential Board
  - L.Č. Popović, member of the Presidential Board
  - V.Protić - Benišek, member of the Presidential Board
  - I. Vince, member of the Presidential Board
  
4. Serbian Society for Science fiction
  - M. Ćirković - Secretary and Co-Founder



## 10. VISITING DIGNITARIES AND DISTINGUISHED GUESTS AT THE ASTRONOMICAL OBSERVATORY

31.05. - 4.06.2000.

M. S. De Biasi, La Plata Observatory and National University of Argentina, Facultad de Ciencias Astronomicas y Geofisicas (UNLP), Consejo Nacional de Investigaciones Cientificas y Tecnicas (CONICET), Argentina

23-26.06.2000

Guests of Belgrade Astronomical Observatory at the Second Serbian-Bulgarian Astronomical Meeting, Zaječar (Gamzigradska Banja)

Milcho K. Tsvetkov

Katya P. Tsvetkova

Georgi R. Ivanov

Ana P. Borisova

Vasil N. Popov

Konstantin Y. Stavrev

Liubomir H. Iliev

Jordan K. Asenov

Alexander P. Antov

Renada K. Konstantinova-Antova

Rumen S. Bachev

Rumen G. Bogdanovski

2-9.09.2000.

Dr Evencio Mediavilla, Instituto de Astrofisica de Canarias, La Laguna, Tenerife, Spain

20-28.11.2000.

Dr Gotthard Richter, Astrophysikalisches Institut Potsdam, Germany.

20-28.11.2000.

Dr Petra Böhm, Astrophysikalisches Institut Potsdam, Germany.

21-24.11.2000.

Rositsa Ivanova, Veliko Trnovo, Bulgaria

26.12.2000 - 16.01.2001

Irina Arturovna Egorova, Odessa Astronomical Observatory, Odessa, Ukraine

## 11. THE ATTENDANCE AT SCIENTIFIC CONFERENCES

1. 5th Humboldt Coll. Cel. Mech.: New Developments in the Dynamics of Planetary Systems, Bad Hofgastain (Austria), 19-25.3.2000.

Zoran Knežević (Chairman of a session)

2. 10. Kongres fizičara Jugoslavije, (10th Congress of Physicists of Yugoslavia), Vrnjačka Banja 27-29.3.2000.

E. Bon

M. Dačić

M. S. Dimitrijević

N. Milovanović

D. Tankosić

3. Republički seminar o nastavi fizike, (Republic Seminary on Physics Teaching), Vrnjačka Banja 28-30.3.2000.

E. Bon

M. Dačić

M. S. Dimitrijević

N. Milovanović

D. Tankosić

4. The 77<sup>th</sup> RASNZ (Royal Astronomical Society of New Zealand) Annual Conference, Wellington, New Zealand, 20-22.05.2000.

Lj. Skuljan

5. Joint European and National Astronomy Meeting JENAM-2000, 9th European and 5th Euro-Asian Astronomical Society Conference, 'European Astronomy at the Turn of the Millennium', Moscow, Russia, May 29 - June 3, 2000

E. Bon

M. S. Dimitrijević

G. Djurašević

N. Milovanović

L. Č. Popović

N. Stanić

D. Tankosić

6. Colloquium 'Atomic and Molecular Data for Astrophysics' (Satellite meeting to Joint European and National Astronomy Meeting JENAM-2000, Moscow, Russia, 4-5 June 2000

M. S. Dimitrijević

7. Conference 2000 "Astrometry, Geodynamics and Celestial mechanics on the eve of XXI century", Sankt Petersburg, Russia, 19-24 June 2000  
G. Damljanović
  
8. Second Serbian-Bulgarian Astronomical Meeting, Zaječar (Gamzigradska Banja), 23-26.06.2000.  
E. Bon  
Z. Cvetković  
M. S. Dimitrijević (Chairman of a session)  
S. Erkapić  
N. Milovanović  
S. Ninković  
D. Olević  
L. Č. Popović (Chairman of a session)  
O. Vince
  
9. 15<sup>th</sup> International Conference on Spectral Line Shapes ICSLS XV, Berlin 10-14 July 2000.  
M. S. Dimitrijević  
L. Č. Popović
  
10. International Astronomical Union 24<sup>th</sup> General Assembly, Manchester 7-18 August 2000  
G. Damljanović  
M. S. Dimitrijević  
D. Jevremović  
V. Protić - Benišek  
D. Tankosić
  
11. International Conference: Stellar Dynamics: From Classic to Modern, Sankt Petersburg 21-27 August 2000.  
S. Ninković
  
12. 4th General Conference of the Balkan Physicists Union, Veliko Trnovo 22-27 August 2000.  
V. Trajkovska
  
13. 20<sup>th</sup> Summer School and International Symposium on the Physics of Ionized Gases, 20<sup>th</sup> SPIG, Zlatibor 4-8 September 2000.  
E. Bon  
M. S. Dimitrijević (Chairman of a session)  
D. Jevremović

S. Marković  
N. Milovanović  
L. Č. Popović  
I. Vince

14. III Belarussian - Yugoslav Symposium on Physics and Diagnostics of Laboratory and Astrophysical Plasmas, Minsk 17-21 September 2000.

L. Č. Popović  
N. Milovanović

15. Journées 2000 "Systèmes de Référence Spatio-Temporels", "J2000, a fundamental epoch for origins of reference systems and astronomical models", Paris Observatory, France, 18-20.09.2000.

G. Damljanović

16. Antika u Jugoslaviji - oblasti i recepcija (Antique in Yugoslavia - regions and reception), Belgrade, 23 September 2000

M. S. Dimitrijević

17. Balkan meeting of young astronomers, Belogradchik, 25-29 September 2000.

M. Dačić  
M. S. Dimitrijević (Chairman of a session)  
N. Milovanović  
S. Ninković  
D. Olević  
L. Č. Popović

18. Workshop on plasma diagnostics and industrial applications of plasmas, The Abdus Salam International centre for theoretical physics, Trieste (Miramare), Italy, 12-13 October 2000

M. S. Dimitrijević

19. Prirodne i matematičke nauke u Srba 1850 - 1918 (Natural and mathematical sciences with Serbs 1850 - 1918), Novi Sad, 30-31 October 2000.

M. Dačić  
M. S. Dimitrijević  
M. Djokić  
S. Ninković  
D. Olević  
V. Protić-Benišek  
V. Trajkovska

20. School for young astronomers: Processing of astronomical images by MIDAS software, Research center Petnica, Valjevo, 21-24 November 2000.

E. Bon

N. Milovanović

L. Č. Popović

O. Vince

I. Vince

## 12. VISITS TO SCIENTIFIC INSTITUTIONS

1. 29.12.1999-6.01.2000  
L'Institut d'Astrophysique Spatiale, Orsay, France  
S. Jankov
2. 1.01-31.01 2000  
University of Massachusetts, Amherst, USA  
V. Živkov
3. 1.01-31.12.2000  
Department of Physics and Astronomy, University of Canterbury, Christchurch,  
New Zealand.  
Mt. John Observatory, New Zealand  
Lj. Skuljan
4. 27.01-17.02.2000  
Astrophysikalisches Institut Potsdam, Germany.  
L. Č. Popović
5. 7.02. - 7.04.2000  
Department of Astronomy, Eötvös Lorand University, Budapest, Hungary  
I. Vince
6. 12.01-28.08.2000  
Armagh Observatory, Armagh, Northern Ireland  
D. Jevremović
7. 22-27.02.2000  
Astronomical Observatory, Vienna, Austria.  
M.S. Dimitrijević
8. 1.03-10.05.2000  
Institute of Physics, Faculty of Sciences, Skopje, Macedonia  
V. Trajkovska
9. 1.03-31.12 2000  
University of Massachusetts, Amherst, USA

V. Živkov

10. 13.03-13.04.2000  
 Instituto de Astrofísica de Canarias, La Laguna, Tenerife, Spain  
 Teide Observatory, Tenerife, Spain  
 Roque de los Muchachos Observatory, La Palma, Canary Islands, Spain  
 L. Č. Popović
11. 1.04-31.12.2000  
 Onsala Space Observatory, Sweden  
 S. Nikolić
12. 10-22.04.2000  
 Aristotelos University of Salonica, Astronomical Observatory, Salonica, Greece  
 Section of Astrophysics, Astronomy and Mechanics, Department of Physics, University of Athens, Athens, Greece  
 PMF (Faculty of Sciences), Skopje, Republic of Macedonia  
 M. S. Dimitrijević
13. 28.04-10.05.2000  
 Department of Physics and Astronomy, University of Georgia, Athens, Georgia, USA  
 D. Jevremović
14. 5-9.05.2000  
 Astronomical Observatory, Vienna, Austria.  
 M.S. Dimitrijević
15. 11.05-6.06.2000  
 Dipartimento di matematica, Università di Pisa, Italy  
 Z. Knežević
16. 28.05-7.06.2000  
 Astronomical Institute of the Russian Academy of Sciences, Moscow, Russia  
 M. S. Dimitrijević  
 L. Č. Popović
17. 19-30.06.2000  
 Department of Astronomy, Eötvös Lorand University, Budapest, Hungary  
 I. Vince
18. 30.06-10.07.2000

Astrophysikalisches Institut Potsdam, Germany.

L. Č. Popović

19. 12.07.2000

Astrophysikalisches Institut Potsdam, Germany.

M.S. Dimitrijević

L. Č. Popović

20. 12.07.2000

Astrophysikalische Observatoriums Potsdam, Germany.

M.S. Dimitrijević

L. Č. Popović

21. 10-14.08.2000

Rozhen Observatory (Bulgaria)

O. Vince

22. 1.10-15.12.2000

Armagh Observatory, Armagh, Northern Ireland

D. Jevremović

23. 15.08.-22.12.2000

University of Alabama, Huntsville, Alabama, USA

D. Tankosić

24. 28.08-19.10.2000

Institute of Physics, Faculty of Sciences, Skopje, Macedonia

V. Trajkovska

25. ?? .10-15.12.2000

Armagh Observatory, Armagh, Northern Ireland

D. Jevremović

26. 16.10.2000

Astronomical Observatory, Vienna, Austria.

M.S. Dimitrijević

27. 31.10.-31.12.2000

Observatoire de Côte Azure, Grass, France

S. Jankov

28. 19.11-17.12.2000

Dipartimento di matematica, Università di Pisa, Italy

Z. Knežević



## 13. INTERNATIONAL SCIENTIFIC COLLABORATION

### ARGENTINA

Universidad Nacional de la Plata, Facultad de Ciencias Astronomicas y Geofisicas,  
La Plata (G.Damljanović)

Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), Argentina  
(G.Damljanović)

### AUSTRALIA

Anglo - Australian Observatory, Epping (M. Ćirković)

### AUSTRIA

Astronomical Observatory, Vienna (M. S. Dimitrijević, L. Č. Popović)

### BELARUS

Institute of Molecular and Atomic Physics, Minsk (Agreement on collaboration  
signed 15. 09. 1995)

Scientific-Research Institute for Applied Physical Problems, of The Belarussian  
State University, Minsk (Agreement on collaboration signed 15. 09.  
1995)

Astronomical Observatory of The Belarussian State University, Minsk (Agreement  
on collaboration signed 27. 12. 1995)

### BELGIUM

Observatoire Royale de Belgique, Uccles (V. Protić - Benišek)

### BRASIL

Instituto Astronomico e Geofisico - USP, Sao Paolo (S. Jankov)

### BULGARIA

Institute of Astronomy of the Bulgarian Academy of Sciences, Sofia (V. Protić -  
Benišek, M. S. Dimitrijević, L. Č. Popović, E. Bon)

## FINLAND

Observatory, University of Helsinki, Helsinki (S. Nikolić)

## FRANCE

Observatoire de Paris, Meudon (M. S. Dimitrijević)

## GERMANY

Max-Planck Institute, Garching (M. M. Čirković)

University of Bonn, Bonn (S. Nikolić)

## GREECE

Astronomical Observatory, Aristotelos University of Thessaloniki, Thessaloniki (M. S. Dimitrijević)

Section of Astrophysics, Astronomy and Mechanics, Department of Physics, University of Athens, Athens (G. Djurašević, M. S. Dimitrijević)

## HUNGARY

Department of Astronomy, Eötvös Lorand University, Budapest (S. Nikolić, I. Vince)

Konkoly Observatory, Budapest (I. Vince, S. Nikolić)

Astronomical Observatory, Szombathely (I. Vince)

Astronomical Observatory, Kiskunhalas (I. Vince)

Astronomical Observatory, Baja (I. Vince)

Astronomical Observatory, Szegedin (I. Vince)

## ITALY

Dipartimento di matematica, Università di Pisa, Pisa (The Common Project "Asteroids as a Key of Understanding the Origin of the Solar System", Bilateral Protocol between Yugoslav and Italian Governments, Z. Knežević in charge on Yugoslav and A. Milani on Italian Part)

SISSA, Trieste, Italy (M. Čirković)

## JAPAN

ILOC - International Lunar Occultations Center, Tokio (V. Protić - Benišek)

## REPUBLIC OF MACEDONIA

Institute of Physics, Faculty of Sciences, Skopje (V. Trajkovska)

## NEW ZEALAND

Department of Physics and Astronomy, University of Canterbury, Christchurch,  
(Lj. Skuljan)

Mt. John Observatory (Lj. Skuljan)

Carter Observatory, Wellington (G. Djurašević)

## ROMANIA

Astronomical Observatory, Bucharest (Agreement on collaboration with Astronomical Institute of the Romanian Academy of Sciences, signed on 12. 05. 1995)

Astronomical Observatory, Cluj - Napoca (Agreement on collaboration with Astronomical Institute of the Romanian Academy of Sciences, signed on 12. 05. 1995)

Astronomical Observatory, Timisoara (Agreement on collaboration with Astronomical Institute of the Romanian Academy of Sciences, signed on 12.05.1995)

## RUSSIA

GAIŠ - Main Astronomical Institute "Šternberg", Moskva (S. Ninković, G. Djurašević)

St. Petersburg State University, St. Petersburg (S.Ninković, M. Ćirković)

Institute of Theoretical Astronomy (ITA), St. Petersburg (V. Protić - Benišek, G. Popović)

Petrozavodsk State University, Petrozavodsk (S.Ninković)

Pulkovo Astronomical Observatory, Pulkovo, St.Petersburg (I. Pakvor, V.Protić - Benišek, G. Popović)

Pulkovo Astronomical Observatory - Kislovodsk Solar Station, Pulkovo - Kislovodsk, St.Petersburg (Agreement on collaboration signed early in 1996)

Institute of Applied Physics of the Russian Academy of Sciences, Nizhnij Novgorod (Agreement on collaboration signed early in 1996)

Department of Optics and Spectroscopy, Kazan State University, Kazan, Tatarstan (Agreement on collaboration, signed on 18.08.1995)

Department of Astronomy, Kazan State University, Kazan, Tatarstan (Agreement on collaboration, signed on 18.08.1995)

Engelkhart Astronomical Observatory, Kazan, Tatarstan (Agreement on collaboration, signed on 18.08.1995)

## SLOVAKIA

Astronomical Institute of the Slovak Academy of Sciences, Tatranska Lomnica (G. Djurašević)

## SPAIN

Catalonian Polytechnical University, Barcelona (S. Ninković)

Astrophysical Institute of Andalusia, Granada (S. Ninković)

Instituto de Astrofisica de Canarias, La Laguna, Tenerife (L. Č. Popović, E. Bon)

## SWEDEN

Onsala Space Observatory (S. Nikolić)

## TURKEY

Ankara University Observatory (G. Djurašević)

## UKRAINE

Astronomical Observatory of Odessa State University "I.I. Mechnikov", Odessa (Agreement on collaboration, signed on 27.11.1995)

Crimean Astrophysical Observatory, Nauchny, Crimea (Agreement on collaboration, signed on 24.11.1995)

Mykolayiv Observatory, Mykolayiv (I. Pakvor, G. Damljanović)

## UNITED KINGDOM

Armagh Observatory, Armagh, Northern Ireland (D. Jevremović)

Queen's University, Belfast, Northern Ireland (D. Jevremović)

## USA

University of Alabama, Huntsvil, Alabama, USA (D. Tankosić)

Department of Physics and Astronomy, University of Georgia, Athens, Georgia, USA (D. Jevremović)

University of Massachusetts, Amherst, USA (V. Živkov)

State University of New York, Stony Brook, New York, USA (M. Čirković)

## UZBEKISTAN

Majdanak Observatory, Majdanak, Uzbekistan (G. Djurašević)

## 14. TEACHING ACTIVITY

### 14.1. LECTURING ON THE UNIVERSITY LEVEL

1. M. Dačić  
GEODESIC ASTRONOMY  
Military Technical Academy  
(lectures) 5th year
2. M.S. Dimitrijević  
ASTRONOMICAL SPECTROSCOPY  
Department of Astronomy, Mathematical Faculty  
Postgraduate studies 2nd year
3. M.S. Dimitrijević  
INFLUENCE OF COLLISIONS WITH CHARGED AND NEUTRAL PARTICLES ON STELLAR SPECTRA  
Department of Astronomy, Mathematical Faculty  
Postgraduate studies 2nd year
4. G. Djurašević  
NAVAL METEOROLOGY AND OCEANOGRAPHY  
Naval Faculty, Kotor  
2nd year
5. Z. Knežević  
METHODS OF CELESTIAL MECHANICS  
Department of Astronomy, Mathematical Faculty  
Postgraduate studies 2nd year
6. S. Ninković  
STELLAR SYSTEMS II  
Department of Astronomy, Mathematical Faculty  
Postgraduate studies 1st year
7. S. Ninković  
SPECIAL COURSE ON ORBITS OF STARS IN STELLAR SYSTEMS  
Department of Astronomy, Mathematical Faculty  
Postgraduate studies 2nd year
8. S. Ninković  
GALACTIC ASTRONOMY  
Department of Astronomy, Mathematical Faculty  
Postgraduate studies 2nd year
9. L. Č. Popović  
SELECTED CHAPTERS OF EXTRAGALACTIC ASTRONOMY

Postgraduate studies 2nd year

10. I. Vince  
PRACTICAL ASTROPHYSICS  
Department of Astronomy, Mathematical Faculty  
(lectures and exercises) 3rd year.
11. I. Vince  
METHODS AND TECHNIQUE OF OBSERVATIONS OF THE SUN  
Department of Astronomy, Mathematical Faculty  
Postgraduate studies 2nd year
12. I. Vince  
PRACTICAL ASTRONOMICAL SPECTROSCOPY  
Department of Astronomy, Eötvös Lorand University, Budapest, Hungary  
3rd, 4th and 5th year and Doctoral Studies
13. I. Vince  
SOLAR PHYSICS  
Department of Astronomy, Mathematical Faculty  
Postgraduate studies, 2nd year

**14.2. Ph. D. AND M. Sc. THESES**

1. Mirko G. Nagl  
DISK I HALO MLEČNOG PUTA NA OSNOVU ANALIZE METALIČNOSTI I  
PROSTORNE RASPODELE ZVEZDANIH JATA  
(DISC AND HALO OF THE MILKY WAY ON THE BASIS OF THE ANALYSIS  
OF STELLAR CLUSTER METALICITY AND SPACIOUS DISTRIBUTION)  
M. Sc. Thesis, Belgrade University, Faculty of Mathematics, 21.04.2000  
(Slobodan Ninković, Co-Mentor)
2. Nataša Vranešević  
KINEMATIKA MLEČNOG PUTA U SUNČEVOJ OKOLINI NA OSNOVU A-  
NALIZE MODULA HELIOCENTRIČNIH BRZINA  
(MILKY WAY KINEMATICS IN THE SOLAR NEIGHBORHOOD ON THE BA-  
SIS OF THE HELIOCENTRIC VELOCITIES MODULE ANALYSIS)  
M. Sc. Thesis, Belgrade University, Faculty of Mathematics 24.11.2000  
(Slobodan Ninković Co-Mentor)

## 15. MISCELANEOUS

### 15.1. PRIZES FOR POETRY

1. Nataša Stanić  
XXII PESNIČKE STAZE  
Kikinda, 4.09.2000  
Druga nagrada za pesmu "NEOPISANI RAZLOG"  
22nd POETS PATHS  
Second prize for the poem "NONDESCRIBED REASON"

### 15.2. OTHER

1. 13.05.2000.  
Milan M. Ćirković  
On-line interview to "Astronomski magazin" (Astronomical Magazin) Novi Sad,  
on chat-channel of saite <http://juam.tripod.com>.
2. 27.10.2000  
Promotion of the Belgrade Astronomical Observatory publishing activity on the 45  
Belgrade Book Fair  
M. S. Dimitrijević  
L. Č. Popović  
M. Dačić
3. 6.12.2000  
Milan M. Ćirković  
Participation in the tribune of Serbian Society for Science fiction and the journal  
"Galaksija" (Galaxy): "Kako poslati prvog Jugoslovena u svemir?" (How to send  
the first Yugoslav into space?), held in "Dom omladine" (Hous of youth).
4. M. M. Ćirković is the member of CASE artistic project – a multidisciplinary project  
primarily for painting - architecture - literature, with the headquarters in Belgrade  
but with extensive international collaboration.

5. I. Vince prepared during his stay at the Department for Astronomy of the University of Budapest, detailed list of lectures on PRACTICAL ASTRONOMICAL SPECTROSCOPY - OPTICAL PART, which forms a part of the Department proposal to the University, to introduce this course in undergraduate studies.
6. During 2000 Ištvan Vince prepared 40 expertises for courts.



**16. BELGRADE ASTRONOMICAL  
OBSERVATORY STAFF AND ORGANISATION**

WINNERS OF THE ASTRONOMICAL OBSERVATORY PRIZE FOR 2000

1. Prize for Science  
STEVAN DJENIŽE
1. Prize for Science for Young  
VLADIMIR MILOSAVLJEVIĆ
3. Prize for the Contribution to the Development of the Astronomical Observatory (for fellows of Astronomical Observatory)  
SOFIJA SADŽAKOV
4. Prize for the Contribution to the Development of the Astronomical Observatory  
ŠKOLSKA REDAKCIJA OBRAZOVNO NAUČNOG PROGRAMA RADIO TELE-  
VIZIJE BEOGRAD (SCHOOL EDITORIAL BOARD FOR THE EDUCATIONAL  
SCIENTIFIC PROGRAM OF THE RADIO AND TELEVISION BELGRADE)

DIRECTOR

Milan S. Dimitrijević

DIRECTORIAL BOARD

Dragan Popović - President  
Luka Popović - Vice President  
Zoran Bojanić  
Miroljub Ignjatović  
Slobodan Jankov  
Nebojša Petrović  
Georgije Popović  
Ištvan Vince

JOINT SCIENTIFIC COUNCIL OF ASTRONOMICAL OBSERVATORY, GEO-  
MAGNETIC INSTITUTE AND SEISMOLOGICAL INSTITUTE

Milan S. Dimitrijević - President  
Slobodan Ninković - Vice President  
Olga Atanacković - Vukmanović

Ljiljana Cander  
Stevan Djeniže  
Aleksandar Djordjević  
Gojko Djurašević  
Davorka Grubor  
Slobodan Jankov  
Zoran Knežević  
Aleksandar Kubičela  
Anatolij A. Mihajlov  
Georgije Popović  
Sofija Sadžakov  
Božidar Stanić  
Desanka Šulić  
Ištvan Vince

#### SCIENTIFIC COUNCIL OF ASTRONOMICAL OBSERVATORY

Ištvan Vince - President  
Gojko Djurašević - Vice President  
Milan S. Dimitrijević  
Slobodan Jankov  
Zoran Knežević  
Slobodan Ninković  
Georgije Popović  
Luka Č. Popović

#### STAFF AND ORGANISATION OF ASTRONOMICAL OBSERVATORY IN 2000

Dr Milan S. Dimitrijević (Director)

#### SCIENTIFIC DIVISION

##### DEPARTMENT FOR ASTROPHYSICS

Dr Ištvan Vince (Head of department)  
Dr Milan Ćirković (Ph. D since 22.06.2000)  
Dr Milan S. Dimitrijević  
Dr Gojko Djurašević  
Dr Slobodan Jankov  
Dr Darko Jevremović  
Dr Luka Č. Popović  
M.Sc. Sanja Erkapić  
M.Sc. Silvana Nikolić  
M.Sc. Ljiljana Skuljan  
M.Sc Dragana Tankosić  
Edi Bon

Snežana Marković-Kršljanin

Nenad Milovanović

Nataša Stanić

Oliver Vince

#### DEPARTMENT FOR DYNAMICAL ASTRONOMY

Dr Georgije Popović (Head of Department)

Dr Zoran Knežević

Dr Slobodan Ninković

M.Sc. Dragomir Olević

M.Sc. Rade Pavlović

M.Sc. Vojislava Protić - Benišek

Veselka Trajkovska (up to 10.05.2000)

Vesna Živkov

#### DEPARTMENT FOR ASTROMETRY

Dr Miodrag Dačić (Head of Department)

M.Sc. Predrag Jovanović

M.Sc. Ivan Pakvor

M.Sc. Zorica Cvetković

M.Sc. Nataša Vranešević (up to 8.07.2000 Popović, M.Sc since 24.11.2000)

#### LIBRARY

Vesna Mijatović (librarian)

Milan Radovanac (archivist)

#### PROFESSIONAL SERVICES DIVISION

##### TIME KEEPING AND GEOGRAPHIC COORDINATES DETERMINATION SERVICE

M.Sc Goran Damljanović (Head of the Service)

M.Sc Bora Jovanović

Djuro Božičković

Veselka Trajkovska (since 11.05.2000)

#### GENERAL AND PERSONAL SERVICES DIVISION

##### GENERAL AND PERSONAL SERVICE

Sreten Stepanović (Secretary – Head of the Service)

Gordana Gajić (Technical secretary)

Stajka Novaković (telephonist)

Jelena Pešić (maintenance)

ACCOUNT - KEEPING SERVICE

Slavica Pavić (Head of Service)

Gordana Dakić (bookkeeper – accountant)

TECHNICAL SERVICE

Vladimir Savković (electrotechnician)

## 17. E-MAIL ADDRESSES

Edi Bon	ebon@aob.bg.ac.yu
Djuro Božičković	djbozickovic@aob.bg.ac.yu
M.Sc Zorica Cvetković	zcvetkovic@aob.bg.ac.yu
Ph.D Milan Ćirković	mcirkovic@aob.bg.ac.yu
	arioch@eunet.yu
Ph.D Miodrag Dačić	mdacic@aob.bg.ac.yu
M.Sc Goran Damljanović	gdamljanovic@aob.bg.ac.yu
Ph.D Milan Dimitrijević	mdimitrijevic@aob.bg.ac.yu
Ph.D Gojko Djurašević	gdjurasevic@aob.bg.ac.yu
M.Sc Sanja Erkapic	serkaptic@aob.bg.ac.yu
Ph.D Slobodan Jankov	sjankov@aob.bg.ac.yu
Ph.D Darko Jevremović	darko@aob.bg.ac.yu
M.Sc Bora Jovanović	bjovanovic@aob.bg.ac.yu
M.Sc Predrag Jovanović	pjovanovic@aob.bg.ac.yu
Ph.D Zoran Knežević	zoran@aob.bg.ac.yu
Ph.D Aleksandar Kubičela	akubicela@aob.bg.ac.yu
Snežana Marković-Kršljanin	smarkovic@aob.bg.ac.yu
Nenad Milovanović	nmilovanovic@aob.bg.ac.yu
Vesna Mijatović	vesna@aob.bg.ac.yu
M.Sc Silvana Nikolić	silvana@aob.bg.ac.yu
Ph.D Slobodan Ninković	sninkovic@aob.bg.ac.yu
M.Sc Dragomir Olević	dolevic@aob.bg.ac.yu
M.Sc Ivan Pakvor	ipakvor@aob.bg.ac.yu
M.Sc Rade Pavlović	rpavlovic@aob.bg.ac.yu
Ph.D Georgije Popović	gpopovic@aob.bg.ac.yu
Ph.D Luka Popović	lpopovic@aob.bg.ac.yu
M.Sc Vojislava Protić-Benišek	vprotic@aob.bg.ac.yu
M.Sc Ljiljana Skuljan	ljskuljan@aob.bg.ac.yu
M.Sc Dragana Tankosić	dtankosic@aob.bg.ac.yu
Nataša Stanić	ntrajkovic@aob.bg.ac.yu
Veselka Trajkovska	vtrajkovska@aob.bg.ac.yu
Ph.D Ištvan Vince	ivince@aob.bg.ac.yu
Oliver Vince	ovince@aob.bg.ac.yu
M.Sc Nataša Vranešević	npopovic@aob.bg.ac.yu
Vesna Živkov	vzivkov@aob.bg.ac.yu

ПУБЛИКАЦИЈЕ АСТРОНОМСКЕ ОПСЕРВАТОРИЈЕ У БЕОГРАДУ  
PUBLICATIONS OF THE ASTRONOMICAL OBSERVATORY OF BELGRADE

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No. 1 (1947)

ЕФЕМЕРИДЕ 98 МАЛИХ ПЛАНЕТА ЗА 1947 ГОДИНУ;  
ÉPHÉMÉRIDES DE 98 DES PETITES PLANÈTES POUR L'AN 1947

No. 2 (1947)

ЕФЕМЕРИДЕ 106 МАЛИХ ПЛАНЕТА ЗА 1948 ГОДИНУ;  
ÉPHÉMÉRIDES DE 106 DES PETITES PLANÈTES POUR L'AN 1948

No. 3 (1949)

ЕФЕМЕРИДЕ 106 МАЛИХ ПЛАНЕТА ЗА 1949 ГОДИНУ;  
ÉPHÉMÉRIDES DE 106 DES PETITES PLANÈTES POUR L'AN 1949

No. 4 (1951) P. M. Djurković, B. M. Ševarlić et Z. M. Brkić,

ОДРЕЂИВАЊЕ ГЕОГРАФСКЕ ШИРИНЕ АСТРОНОМСКЕ ОПСЕРВАТОРИЈЕ У БЕОГРАДУ, 1947;  
DETERMINATION DE LATITUDE DE L'OBSERVATOIRE ASTRONOMIQUE DE BELGRADE, 1947

No. 5 (1957) B. M. Ševarlić,

SUR LE PROBLÈME DE LA VARIATION DES LATITUDES ET DU MOUVEMENT DU PÔLE INSTANTANÉ DE ROTATION À LA SURFACE DE LA TERRE

No. 6 (1961) Ljubiša A. Mitić,

COOSCILLATIONS DES PENDULES ASTRONOMIQUES

No. 7 (1961) Zaharije M. Brkić

ПРИЛОГ ИСПИТИВАЊИМА СИСТЕМАЦКИХ УТИЦАЈА НА АСТРОНОМСКО ОДРЕЂИВАЊЕ ВРЕМЕНА;  
CONTRIBUTION AUX ÉTUDES DES INFLUENCES SYSTÉMATIQUES À LA DÉTERMINATION ASTRONOMIQUE DE L'HEURE

No. 8 (1961) B. M. Ševarlić,

ПРОМЕНЕ ГЕОГРАФСКЕ ШИРИНЕ АСТРОНОМСКЕ ОПСЕРВАТОРИЈЕ У БЕОГРАДУ ОД 1949.0 – 1957.0;  
VARIATIONS DE LA LATITUDE DE L'OBSERVATOIRE ASTRONOMIQUE DE BEOGRAD DE 1949.0 – 1957.0

No. 9 (1961) Branislav M. Ševarlić,

PRIOLOG ISPITIVANJU PROMENA GEOGRAFSKIH ŠIRINA BEOGRADA;  
CONTRIBUTION A L'ÉTUDE DES VARIATIONS DE LA LATITUDE DE BEOGRAD

No. 10 (1964) Vasilije Oskanjan,

THE UV CETI VARIABLE STARS

No. 11 (1965) P. M. Djurković, M. Protić, J. Arsenijević, A. Kubičela, O. Kovačević, R.

Grujić, Lj. Dačić, M. Djokić, Č. Čepinac,  
OBSERVATIONS DU SOLEIL EN 1957, 1958 ET 1959 A L'OBSERVATOIRE ASTRONOMIQUE DE BEOGRAD

No. 12 (1968) Editor : P. M. Djurković,

SIMPOZIJUM ASTRONOMA JUGOSLAVIJE POVODOM 75. GODIŠNJICE OSNIVANJA ASTRONOMSKE OPSERVATORIJE U BEOGRADU (1887 – 1962)

No. 13 (1967) G. Teleki,

A CONTRIBUTION INTO THE RESEARCH OF ASTRONOMICAL REFRACTION AND ITS ANOMALIES ON THE BASIS OF AEROLOGICAL MEASUREMENTS CARRIED OUT IN BEOGRAD

No. 14 (1968)

RADOVI NA ISPITIVANJU FUNDAMENTALNIH ASTROMETRIJSKIH INSTRUMENTA, NJIHOVIH ORGANA I PRIBORA;  
TRAVAUX SUR L'EXAMEN DES INSTRUMENTS ASTROMETRIQUES FONDAMENTAUX, DE LEUR ORGANES ET ACCESSOIRES

No. 15 (1968) Aleksandar Kubičela

UNE MODIFICATION DU SPECTROGRAPHE CHROMOSPHERIQUE A PLAQUE MOBILE

No. 16 (1969) Editor : P. M. Djurković,

RADOVI PRIKAZANI NA IV KONGRESU MATEMATIČARA, FIZIČARA I ASTRONOMA, OKTOBRA 1965 U SARAJEVU

No. 17 (1972) Sofija N. Sadžakov, Dušan P. Šaletić,

CATALOGUE OF DECLINATIONS OF THE LATITUDE PROGRAMME STARS (KŠZ)

No. 18 (1974) Editor : G. Teleki,

THE PRESENT STATE AND FUTURE OF THE ASTRONOMICAL REFRACTION INVESTIGATIONS,

Proceedings of the Study Group on Astronomical Refraction of the International Astronomical Union Commission 8

No. 19 (1974) Georgije M. Popović,

THE FIRST GENERAL CATALOGUE OF DOUBLE-STAR OBSERVATIONS MADE IN BELGRADE, 1951-1971

No. 20 (1975) Editor : Dj. Teleki,

ZBORNIK RADOVA NACIONALNE KONFERENCIJE JUGOSLOVENSKIH ASTRONOMA - 1973, BEOGRAD;

PROCEEDINGS OF THE NATIONAL CONFERENCE OF YUGOSLAV ASTRONOMERS - 1973, BELGRADE

No. 21 (1975) S. Sadžakov, D. Šaletić,

DECLINATIONS AND THE PROPER MOTIONS OF THE STARS OF THE INTERNATIONAL LATITUDE SERVICE ON THE BASIS OF MERIDIAN CATALOGUES FROM 1929 TO 1972.

No. 22 (1975) Ivan Pakvor,

ISPITIVANJE NAGLAVAKA VELIKOG PASAŽNOG INSTRUMENTA ASTRONOMSKE OPSERVATORIJE U BEOGRADU;

PIVOT-EXAMINATIONS OF BELGRADE OBSERVATORY'S LARGE TRANSIT INSTRUMENT

No. 23 (1975) Lj. A. Mitić,

PRIPREMNI RADOVI NA VELIKOM PASAŽNOM INSTRUMENTU BEOGRADSKE OPSERVATORIJE;

PREPARATION OF THE LARGE TRANSIT INSTRUMENT OF THE BELGRADE OBSERVATORY FOR REGULAR OBSERVATION

No. 24 (1978) Sofija N. Sadžakov,

IZVEDENI KATALOG ŠIRINSKIH ZVEZDA (IKŠZ);

GENERAL CATALOGUE OF LATITUDE STARS (IKŠZ)

No. 25 (1978) Danilo J. Zulević,

PRILOG STATISTIČKOM ISPITIVANJU UTICAJA ODNOSA MASA KOMPONENTATA NA DINAMIČKE PUTANJSKE ELEMENTE ( $e$ ,  $P$ ,  $a$ ) KOD VIZUELNO DVOJNIH ZVEZDA;

STATISTICAL INVESTIGATION OF THE RELATION BETWEEN THE MASS RATIO AND THE DYNAMICAL ORBITAL ELEMENTS  $e$ ,  $P$ ,  $a$  OF THE VISUAL BINARIES

No. 26 (1979) Editor : Dj. Teleki,  
ZBORNİK RADOVA III NACIONALNE KONFERENCIJE JUGOSLOVENSKIH AS-  
TRONOMA, BEOGRAD, 1977.;  
PROCEEDINGS OF THE III NATIONAL CONFERENCE OF YUGOSLAV ASTRONO-  
MERS, BELGRADE, 1977.

No. 27 (1979) S. N. Sadžakov,  
ISPITIVANJE SISTEMATSKIH GREŠAKA TIPA  $\Delta\delta_\alpha$  ŠIRINSKIH POSMATRANJA  
RAZNIH OPSERVATORIJA NA OSNOVU NJIHOVOG UPOREDJIVANJA SA BEO-  
GRADSKIM IZVEDENIM KATALOGOM ŠIRINSKIH ZVEZDA I FOTOGRAFSKIM  
KATALOGOM AGK3;  
INVESTIGATION OF THE SYSTEMATIC  $\Delta\delta_\alpha$  - TYPE ERRORS IN LATITUDE OB-  
SERVATIONS OF VARIOUS OBSERVATORIES BY THEIR COMPARISON WITH BEL-  
GRADE GENERAL CATALOGUE OF LATITUDE STARS AND THE PHOTOGRAPHIC  
CATALOGUE AGK3

No. 28 (1980) Jelisaveta Arsenijević,  
POLARIZACIJA ZRAČENJA NEKIH HLADNIH SUPERDŽINOVA

No. 29 (1982) Editors : G. Teleki, B. Ševarlić,  
EPITOME FUNDAMENTORUM ASTRONOMIAE, Pars II,  
Photographic Catalogues and Charts of Star Positions

No. 30 (1981) S. N. Sadžakov, D. P. Šaletić, M. D. Dačić,  
KATALOG ZVEZDA PROGRAMA SFZT;  
CATALOGUE OF NPZT PROGRAMME STARS

No. 31 (1981)  
ASTROKLIMATSKA ISTRAŽIVANJA ZA IZBOR MESTA VISINSKE STANICE AS-  
TRONOMSKE OPSERVATORIJE U BEOGRADU;  
ASTROCLIMATIC EXPLORATIONS FOR SITE SELECTION OF THE HIGH ALTI-  
TITUDE STATION OF THE BELGRADE OBSERVATORY

No. 32 (1984) Vojislava Protić-Benišek,  
MERKUROVI PROLAZI I PARALAKSA SUNCA;  
TRANSITS OF MERCURY AND SOLAR PARALLAX

No. 33 (1985) Editor : G. M. Popović,  
ZBORNİK RADOVA VI NACIONALNE KONFERENCIJE JUGOSLOVENSKIH AS-  
TRONOMA, HVAR, 1983.;  
PROCEEDINGS OF THE VI NATIONAL CONFERENCE OF YUGOSLAV ASTRONO-  
MERS, HVAR, 1983

No. 34 (1986) Božidar Popović,  
EQUATIONS DES PERTURBATIONS DES ELEMENTS HELIOCENTRIQUES VECTO-  
RIELS DES ORBITES DES PETITES PLANETES ET COMETES

No. 35 (1987) Editor : G. Teleki,  
PROCEEDINGS OF THE WORKSHOP ON REFRACTION DETERMINATION IN THE  
OPTICAL AND RADIO ASTROMETRY, LENINGRAD, USSR, 1985

No. 36 (1989)  
STO GODINA ASTRONOMSKE OPSERVATORIJE U BEOGRADU

No. 37 (1989) Vladimir Kršljanin,  
ŠTARKOV POMAK JONSKIH LINIJA KOD TOPLIH ZVEZDA;  
ION LINES STARK SHIFTS IN SPECTRA OF HOT STARS

No. 38 (1990) S. N. Sadžakov, M. D. Dačić,  
BEOGRADSKI KATALOG DVOJNIH ZVEZDA;  
BELGRADE CATALOGUE OF DOUBLE STARS



No. 39 (1990) Milan S. Dimitrijević,  
ISTRAŽIVANJA OBLIKA SPEKTRALNIH LINIJA U JUGOSLAVIJI 1962 – 1985,  
(Bibliografija i indeks citata);  
LINE SHAPES INVESTIGATIONS IN YUGOSLAVIA 1962 – 1985,  
(Bibliography and citation index)

No. 40 (1990) Editors : G. Teleki and B. Ševarlić,  
EPITOME FUNDAMENTORUM ASTRONOMIAE, Pars III,  
Parallaxes, Proper Motions and Radial Velocities

No. 41 (1991) Milan S. Dimitrijević,  
ISTRAŽIVANJE OBLIKA SPEKTRALNIH LINIJA U JUGOSLAVIJI II (1985 – 1989),  
(Bibliografija i indeks citata);  
LINE SHAPES INVESTIGATIONS IN YUGOSLAVIA II (1985 – 1989),  
(Bibliography and Citation Index)

No. 42 (1991) Gojko Djurašević,  
ISPITIVANJE AKTIVNIH TESNIH DVOJNIH SISTEMA NA OSNOVU FOTOMETRI-  
JSKIH MERENJA;  
INVESTIGATION OF ACTIVE CLOSE BINARIES BASED ON PHOTOMETRIC MEA-  
SUREMENTS

No. 43 (1992) Editors : O. Atanacković-Vukmanović and M. S. Dimitrijević,  
Astronomska opservatorija u Beogradu,  
AKTIVNOSTI I KRATKI SADRŽAJI RADOVA 1980 – 1990;  
Astronomical Observatory in Belgrade,  
ACTIVITIES AND ABSTRACTS OF PAPERS 1980 – 1990

No. 44 (1993) Editors : M. S. Dimitrijević and D. Djurović,  
ZBORNİK RADOVA X NACIONALNE KONFERENCIJE JUGOSLOVENSКИH ASTRO-  
NOMA, 22 – 24 SEPTEMBAR 1993;  
PROCEEDINGS OF THE X NATIONAL CONFERENCE OF YUGOSLAV ASTRONO-  
MERS, BELGRADE, SEPTEMBER 22 – 24, 1993

No. 45 (1993) B. Jovanović, L. Djurović, M. Jovanović,  
HOMOGENIZOVANI SISTEM UT<sub>BLI</sub> ZA PERIOD 1964 – 1986;  
HOMOGENEOUS SYSTEM UT<sub>BLI</sub> FOR 1964 – 1986

No. 46 (1994) Luka Č. Popović,  
ŠTARKOVO ŠIRENJE SPEKTRALNIH LINIJA TEŠKIH JONA U SPEKTRIMA TOPLIH  
ZVEZDA;  
STARK BROADENING OF HEAVY ION SPECTRAL LINES IN SPECTRA OF HOT  
STARS

No. 47 (1994) Milan S. Dimitrijević,  
ISTRAŽIVANJE OBLIKA SPEKTRALNIH LINIJA U JUGOSLAVIJI I SRBIJI III (1989  
– 1993),  
(Bibliografija i indeks citata);  
LINE SHAPES INVESTIGATIONS IN YUGOSLAVIA AND SERBIA III (1989 – 1993),  
(Bibliography and citation index)

No. 48 (1995) Editors : O. Atanacković-Vukmanović and M. S. Dimitrijević,  
ISTRAŽIVANJA U ASTRONOMIJI I;  
RESEARCHES IN ASTRONOMY I

No. 49 (1995) Editors : I. Vince, M. S. Dimitrijević and L. Balázs,  
PROCEEDINGS OF THE FIRST HUNGARIAN-YUGOSLAV ASTRONOMICAL CON-  
FERENCE,  
April 26–27, 1995, Baja Hungary

No. 50 (1995) Editors : M. S. Dimitrijević and L. Č. Popović,  
PROCEEDINGS OF THE FIRST YUGOSLAV CONFERENCE ON SPECTRAL LINE  
SHAPES,  
September 11–14, 1995, Krivaja, Yugoslavia

No. 51 (1996) Editors : M. S. Dimitrijević and L. Č. Popović,  
Астрономска Опсерваторија у Београду,  
АКТИВНОСТИ И КРАТКИ САДРЖАЈИ РАДОВА (1991 – 1995);  
Astronomical Observatory in Belgrade,  
ACTIVITIES AND ABSTRACTS OF PAPERS (1991 – 1995)

No. 52 (1996) Milan S. Dimitrijević,  
БЕОГРАДСКА АСТРОНОМСКА ОПСЕРВАТОРИЈА У 1995;  
BELGRADE ASTRONOMICAL OBSERVATORY IN 1995

No. 53 (1996) Editors : V. S. Burakov and M. S. Dimitrijević,  
PROCEEDINGS OF THE FIRST BELARUSSIAN-YUGOSLAVIAN SYMPOSIUM ON  
PHYSICS AND DIAGNOSTICS OF LABORATORY & ASTROPHYSICAL PLASMA,  
July 1 – 3, 1996, Minsk, Belarus,  
In memoriam of M. A. Elyashevich, academician of Belarus AS

No. 54 (1996) Editors : M. Vukićević-Karabin and Z. Knežević,  
ЗБОРНИК РАДОВА ХИ НАЦИОНАЛНЕ КОНФЕРЕНЦИЈЕ ЈУГОСЛОВЕНСКИХ  
АСТРОНОМА,  
Београд, 9 – 11, октобар 1996;  
PROCEEDINGS OF THE XI NATIONAL CONFERENCE OF YUGOSLAV ASTRONO-  
MERS,  
Belgrade, October 9 – 11, 1996

No. 55 (1997) Milan S. Dimitrijević,  
БЕОГРАДСКА АСТРОНОМСКА ОПСЕРВАТОРИЈА У 1996;  
BELGRADE ASTRONOMICAL OBSERVATORY IN 1996

No. 56 (1997) Editors : M. S. Dimitrijević, J. Milošgradov-Turin and L. Č. Popović,  
РАЗВОЈ АСТРОНОМИЈЕ КОД СРБА;  
DEVELOPMENT OF ASTRONOMY AMONG SERBS

No. 57 (1997) Editors : Luka Č. Popović and Milivoje Ćuk,  
PROCEEDINGS OF THE SECOND YUGOSLAV CONFERENCE ON SPECTRAL LINE  
SHAPES,  
September 29 – October 2, 1997, Bela Crkva, Yugoslavia

No. 58 (1997) Milan S. Dimitrijević,  
LINE SHAPES INVESTIGATIONS IN YUGOSLAVIA AND SERBIA IV (1993 – 1997),  
(Bibliography and citation index);  
ISTRAŽIVANJE OBLIKA SPEKTRALNIH LINIJA U JUGOSLAVIJI I SRBIJI IV,  
(1993 – 1997) (Bibliografija i indeks citata)

No. 59 (1998) Milan S. Dimitrijević,  
БЕОГРАДСКА АСТРОНОМСКА ОПСЕРВАТОРИЈА У 1997;  
BELGRADE ASTRONOMICAL OBSERVATORY IN 1997

No. 60 (1998) Editors : M. S. Dimitrijević and L. Č. Popović,  
PROCEEDINGS OF THE 4<sup>th</sup> YUGOSLAV-ROMANIAN ASTRONOMICAL MEETING,  
(4<sup>th</sup> YuRoAM)

No. 61 (1998) Editors : M. S. Dimitrijević and V. S. Burakov,  
PROCEEDINGS OF THE 2<sup>nd</sup> YUGOSLAV – BELARUSSIAN SYMPOSIUM ON PHYSICS & DIAGNOSTICS OF LABORATORY & ASTROPHYSICAL PLASMAS,  
September 5-6, 1998, Zlatibor, Yugoslavia

No. 62 (1998) M. S. Dimitrijević,  
АСТРОНОМСКА СПЕКТРОСКОПИЈА;  
ASTRONOMICAL SPECTROSCOPY

No. 63 (1999) Milan S. Dimitrijević,  
БЕОГРАДСКА АСТРОНОМСКА ОПСЕРВАТОРИЈА У 1998;  
BELGRADE ASTRONOMICAL OBSERVATORY IN 1998

No. 64 (1999) Editors : Milan S. Dimitrijević, Luka Č. Popović and Milcho Tsvetkov,  
PROCEEDINGS OF THE FIRST BULGARIAN-YUGOSLAV ASTRONOMICAL MEETING

No. 65 (1999) Editors : Luka Č. Popović and Miodrag Dačić,  
ЗБОРНИК РАДОВА XII НАЦИОНАЛНЕ КОНФЕРЕНЦИЈЕ ЈУГОСЛОВЕНСКИХ АСТРОНОМА И МЕЂУНАРОДНОГ СКУПА О РАЗВОЈУ АСТРОНОМСКИХ БАЗА ПОДАТАКА;  
PROCEEDINGS OF THE XII NATIONAL CONFERENCE OF YUGOSLAV ASTRONOMERS AND INTERNATIONAL WORKSHOP ON THE DEVELOPMENT OF ASTRONOMICAL DATABASES

No. 66 (1999) Editors : M. S. Dimitrijević, J. Purić and V. S. Burakov,  
INVITED LECTURES OF THE 2<sup>nd</sup> YUGOSLAV – BELARUSIAN SYMPOSIUM ON PHYSICS & DIAGNOSTICS OF LABORATORY & ASTROPHYSICAL PLASMAS,  
September 5-6, 1998, Zlatibor, Yugoslavia

No. 67 (2000) Editors : Milan S. Dimitrijević, Luka Č. Popović and Milcho Tsvetkov,  
ЗБОРНИК РАДОВА ДРУГОГ СРПСКО - БУГАРСКОГ АСТРОНОМСКОГ СУСРЕТА,  
Јун 23-26, Зајечар, Србија;  
PROCEEDINGS OF THE SECOND SERBIAN - BULGARIAN ASTRONOMICAL MEETING,  
Jun 23-26, Zaječar, Srbija

No. 68 (2000) Editors : V. S. Burakov and M. S. Dimitrijević,  
III BELARUSIAN – YUGOSLAV SYMPOSIUM ON PHYSICS AND DIAGNOSTICS OF LABORATORY AND ASTROPHYSICAL PLASMAS,  
September 17-21, 2000, Minsk, Belarus

No. 69 (2000) Milan S. Dimitrijević,  
БЕОГРАДСКА АСТРОНОМСКА ОПСЕРВАТОРИЈА У 1999;  
BELGRADE ASTRONOMICAL OBSERVATORY IN 1999

No. 70 (2001) Milan S. Dimitrijević,  
БЕОГРАДСКА АСТРОНОМСКА ОПСЕРВАТОРИЈА У 2000;  
BELGRADE ASTRONOMICAL OBSERVATORY IN 2000

CIP – Каталогизација у публикацији  
Народна библиотека Србије, Београд

520.1:061.6 (497.11) "2000"

DIMITRIJEVIĆ, Milan S.

Београдска астрономска опсерваторија у  
2000 / Милан С. Димитријевић = Belgrade  
Astronomical Observatory in 2000 / Milan S.  
Dimitrijević. – Belgrade : Astronomical  
Observatory, 2001 (Belgrade : Portal) . – 128  
str. : fotogr. ; 24 cm. – (Публикације  
Астрономске опсерваторије у Београду ; sv.  
71 = Publications of the Astronomical

Observatory of Belgrade, ISSN 0373-3742 ; no.  
71)

Tiraž 500. – Bibliografija: str. 20-33.

1. Astronomска opсervatorija (Beograd)

013:[520.1::061.6 (497.11) "2000"

016:[520/524

а) Астрономска опсерваторија (Београд) –  
2000 б) Астрономска опсерваторија (Београд) –  
Радови - 2000 – Библиографија с)  
Астрономија – Библиографије  
ID = 91592716



**Fig. 1.** Prof. Dr Stevan Djeniže, the winner of the Prize for Science for 2000 (All photos save for photos Nos. 16 - 25, 28, 29 and 42 taken by Miodrag Dačić). (7. April 2000.)



**Fig. 2.** Dr Sofija Sadžakov receiving the prize for her contribution to the development of Astronomical Observatory for 2000. (7. April 2000.)



**Fig. 3.** M.Sc. Vladimir Milosavljević receiving the Prize for Science for the young of Astronomical Observatory for 2000. (7. April 2000.)



**Fig. 4.** Petar Savković receiving, for the Scholar Editorial Board of the Educational Scientific Program of the Radio and Television Belgrade, the prize for the contribution to the spreading of astronomical knowledge in our midst, thus contributing to the Astronomical Observatory. (7. April 2000.)



**Fig. 5.** Dr Dragan Popović handing to Dr Gojko Djurašević the writ of recognition for his 20 years collaboration at the Observatory. (7. April 2000.)



**Fig. 6.** Dr Dragan Popović handing to M.Sc. Goran Damljanović the writ of recognition for his 10 years collaboration at the Observatory. (7. April 2000.)



**Fig. 7.** 10<sup>th</sup> Congress of Yugoslav Physicists, Vrnjačka Banja 27-30. 03. 2000. Nenad Milovanović, Dragana Tankosić, Milan S. Dimitrijević and Edi Bon.



**Fig. 8.** Milan S. Dimitrijević giving his invited lecture at Republic Seminar on Physics Education in Vrnjačka Banja 28-30. 03. 2000.





**Fig. 9.** The Observatory Day Celebration, 7. April 2000. Slobodan Ninković, Dragan Popović, Milan S. Dimitrijević.



**Fig. 10.** The Observatory Day Celebration, 7. April 2000. The front row: Dr Georgi Konstantinov (Institute "Mihajlo Pupin"), Petar Savković, Dr Neda Bokan (Dean of Mathematical Faculty), Dr Sofija Sadžakov.



**Fig. 11.** The Observatory Day Celebration, 7. April 2000. Dr Slobodan Žegarac (Director of the Seismological Institute), Slavko Maksimović, Milan S. Dimitrijević, Dragan Popović.



**Fig. 12.** The Observatory Day Celebration, 7. April 2000. Milan Jeličić, Tanja Milovanov, Nenad Milovanović, Darko Djokić, Dragana Tankosić, Nataša Vranešević.



**Fig. 13.** The Observatory Day Celebration, 7. April 2000. Sofija Sadžakov, Zorica Cvetković, Gligorije Perović.



**Fig. 14.** The Observatory Day Celebration, 7. April 2000. Milan Radovanac, Dragan Blagojević.



**Fig. 15.** Dinner at Olga Borisovna Dluzhnevskaya, Moscow 3. June 2000. Dragana Tankosić, Magda Stavinschi (Bucharest), Milan S. Dimitrijević, Luka Č. Popović, Oleg Yu Malkov.



**Fig. 16.** 2<sup>nd</sup> Serbian - Bulgarian Astronomical Meeting, Zaječar (Gamzigradska Banja) 23. 06. 2000. Conference opening in Radul Beg's "Konak".



**Fig. 17.** 2<sup>nd</sup> Serbian - Bulgarian Astronomical Meeting, Zaječar (Gamzigradska Banja) 23. 06. 2000. In front of Radul Beg "Konak".



**Fig. 18.** 2<sup>nd</sup> Serbian - Bulgarian Astronomical Meeting, Zaječar (Gamzigradska Banja) 23. 06. 2000. Conference opening in Radul Beg "Konak". Nenad Milovanović.



**Fig. 19.** 2<sup>nd</sup> Serbian - Bulgarian Astronomical Meeting, Zaječar (Gamzigradska Banja) 24. 06. 2000. Beginning of the working part. Nenad Milovanović, Aleksandar Antov, Milan S. Dimitrijević, Milcho Tsvetkov, Luka Č. Popović.



**Fig. 20.** 2<sup>nd</sup> Serbian - Bulgarian Astronomical Meeting, Zaječar (Gamzigradska Banja) 24. 06. 2000. Luka Č. Popović, Ljuba Milanović, Slobodan Ninković, Vesna Drinčić.



**Fig. 21.** 2<sup>nd</sup> Serbian - Bulgarian Astronomical Meeting, Zaječar (Gamzigradska Banja) 24. 06. 2000. Slavica Pavić, Gordana Dakić, Asenka Assenova, Rumen Bachev, Rumen Bogdanovski, Renada Konstantinova-Antova.



**Fig. 22.** 2<sup>nd</sup> Serbian - Bulgarian Astronomical Meeting, Zaječar (Gamzigradska Banja) 25. 06. 2000. Excursion to the Suvodol Monastery.



**Fig. 23** 5. 08. 2000. Londonderry (Northern Ireland) Milan S. Dimitrijević, Darko Jevremović.



**Fig. 24** 6. 08. 2000. Carrick Ferguson Castle (Belfast). Milan S. Dimitrijević.

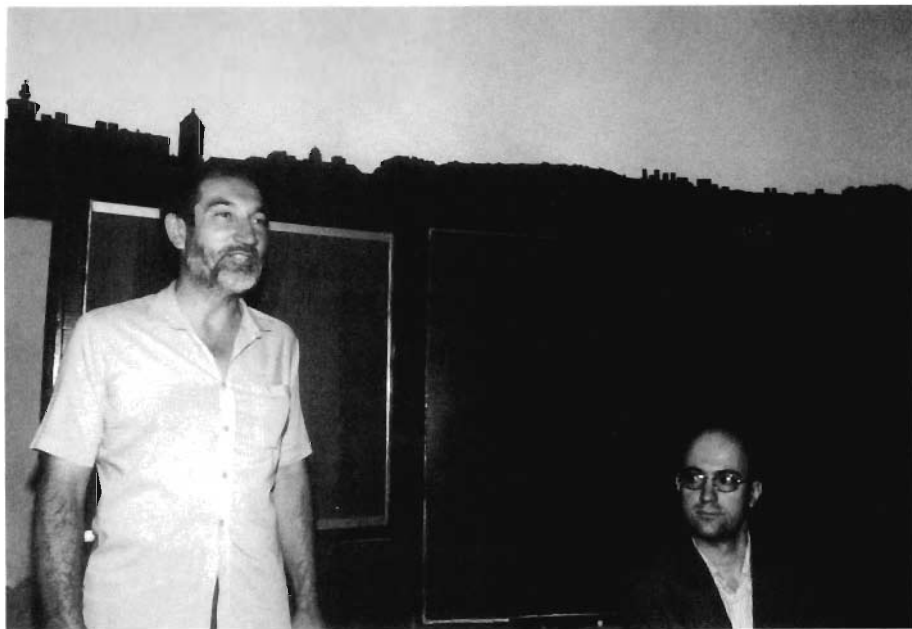




**Fig. 25.** 5. 08. 2000. Giant's Causeway (Northern Ireland) David Asher, Milan S. Dimitrijević, Sandra Jeffers.



**Fig. 26.** 16. 09. 2000. Summer Astronomical Meeting "Astronomy at the end of the 20<sup>th</sup> Century". Planetarium, Belgrade. Milan Jeličić and Aleksandar Kubičela.



**Fig. 27.** 16. 09. 2000. Summer Astronomical Meeting "Astronomy at the end of the 20<sup>th</sup> Century". Planetarium, Belgrade. Milan Jeličić and Milan Čirković.



**Fig. 28.** Participants of the Balkan Meeting of Young Astronomers. Belogradchik 25-29. September 2000.



**Fig. 29.** Participants of the Balkan Meeting of Young Astronomers. Belogradchik 25-29. September 2000.



**Fig. 30.** Balkan Meeting of Young Astronomers, Belogradchik 25-29. September 2000. Milan S. Dimitrijević, Mijat Mijatović, Dragomir Olević.



**Fig. 31.** Balkan Meeting of Young Astronomers, Belogradchik 25-29. September 2000. Reception by Belogradchik Mayor. Emil Tsankov, Katya Tsvetkova, Milcho Tsvetkov, Milan S. Dimitrijević, Dragomir Olević, Michael Contadakis.



**Fig. 32.** Balkan Meeting of Young Astronomers, Belogradchik 25-29. September 2000. Luka Č. Popović, Milan S. Dimitrijević, Nenad Milovanović, Dragomir Olević.



**Fig. 33.** Balkan Meeting of Young Astronomers, Belogradchik 25-29. September 2000. Slobodan Ninković, Michael Contadakis.



**Fig. 34.** Balkan Meeting of Young Astronomers, Belogradchik 25-29. September 2000. Nenad Milovanović.



**Fig. 35.** Balkan Meeting of Young Astronomers, Belogradchik 25-29. September 2000. Mijat Mijatović, Luka Č. Popović, Milan S. Dimitrijević, Nenad Milovanović, Dragomir Olević.



**Fig. 36.** Balkan Meeting of Young Astronomers, Belogradchik 25-29. September 2000. Mijat Mijatović, Luka Č. Popović, Milan S. Dimitrijević.



**Fig. 37.** Balkan Meeting of Young Astronomers, Belogradchik 25-29. September 2000. Conference dinner. Slobodan Ninković.



**Fig. 38.** Balkan Meeting of Young Astronomers, Belogradchik 25-29. September 2000. Conference dinner. Mijat Mijatović, Luka Č. Popović, Rositsa Ivanova, Nenad Milovanović.



**Fig. 39.** Balkan Meeting of Young Astronomers, Belogradchik 25-29. September 2000. Conference dinner. Nenad Milovanović, Dragomir Olević, Milan S. Dimitrijević.



**Fig. 40.** Balkan Meeting of Young Astronomers, Belogradchik 25-29. September 2000. Conference dinner. Miodrag Dačić, Jordan K. Asenov, Dragomir Olević, Milan S. Dimitrijević, Luka Č. Popović, Tsvetan P. Mladenov, Parvoletka Mladenova.





**Fig. 41.** Balkan Meeting of Young Astronomers, Belogradchik 25-29. September 2000. Conference dinner. Emil Tsankov, Dragomir Olević, Milan S. Dimitrijević, Luka Č. Popović, Rositsa Ivanova, Nenad Milovanović.



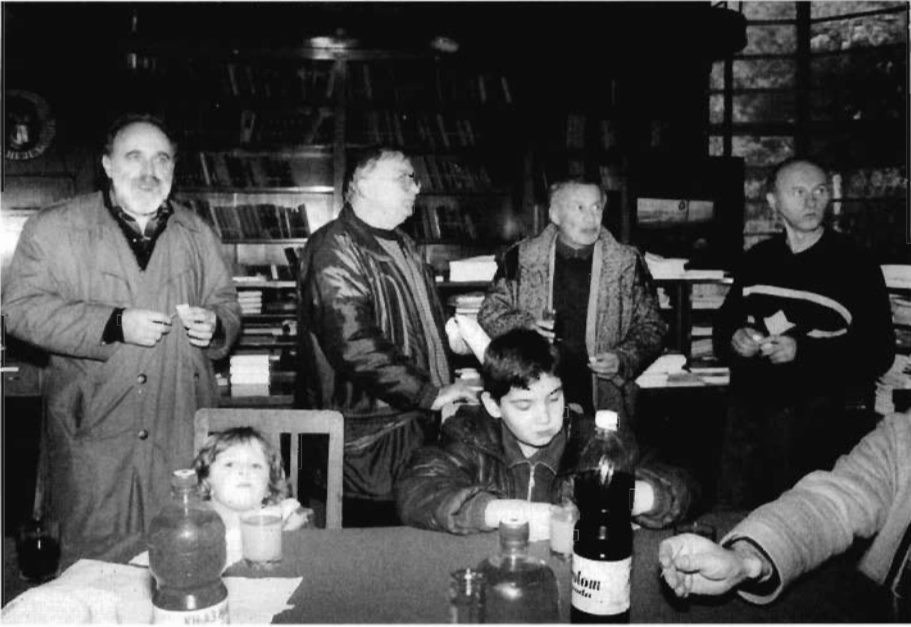
**Fig. 42.** 27: 10. 2000. Promotion of the Belgrade Astronomical Observatory Publishing activity on the 45 Belgrade Book Fair. Miodrag Dačić, Milan S. Dimitrijević, Luka Č. Popović.



**Fig. 43.** Conference: Natural and Mathematical Sciences with Serbs 1850-1918, Novi Sad, Matica Srpska 30. 10. 2000. Miodrag Dačić, Milan S. Dimitrijević, Vojislava Protić-Benišek, Dragomir Olević, Slobodan Ninković.



**Fig. 44.** New Year Celebration for children, 29. 12. 2000. Dragomir Olević, Predrag Marčeta, Milan S. Dimitrijević.



**Fig. 45.** New Year Celebration for children, 29. 12. 2000. Milan Radovanac, Alisa Radovanac, Ištvan Vince, Branko Popović, Georgije Popović, Dragan Blagojević.



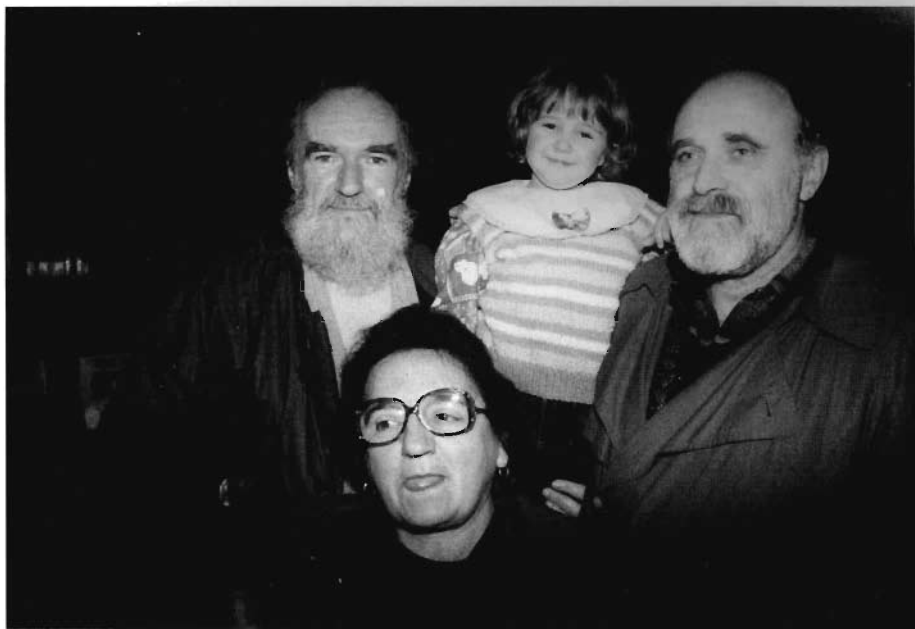
**Fig. 46.** New Year Celebration for children, 29. 12. 2000. Sreten Stepanović, Dragomir Olević as Santa Claus.



**Fig. 47.** New Year Celebration for children, 29. 12. 2000. Gordana Gajić with her daughter Milica.



**Fig. 48.** New Year Celebration for children, 29. 12. 2000. Sitting: Milan S. Dimitrijević, Gligorije Perović.



**Fig. 49.** New Year Celebration for children, 29. 12. 2000. Djura Božičković, Mileva Blagojević, Alisa Radovanac, Milan Radovanac.



**Fig. 50.** New Year Celebration for children, 29. 12. 2000. Milan S. Dimitrijević, Zorica Cvetković, Slobodan Ninković, Georgije Popović, Gordana Dakić, Gligorije Perović.



**Fig. 51.** New Year Celebration for children, 29. 12. 2000. Darko Jevremović, Milan S. Dimitrijević, Luka Č. Popović, Nenad Milovanović.



**Fig. 52.** New Year Celebration for children, 29. 12. 2000. Veselka Trajkovska, Lelica Popović, Bojana Popović, Luka Č. Popović, Branko Popović.



**Fig. 53.** New Year Celebration for children, 29. 12. 2000. Georgije Popović, Milan S. Dimitrijević.



**Fig. 54.** New Year Celebration for children, 29. 12. 2000. Aleksa Jovanović and Zorica Cvetković.



**Fig. 55.** New Year Celebration for children, 29. 12. 2000. Dragan Blagojević, Slobodan Ninković, Milan S. Dimitrijević, Dragomir Olević, Zorica Cvetković, Miodrag Dačić and Gligorije Perović.



**Fig. 56.** New Year Celebration for children, 29. 12. 2000. Luka Č. Popović, Lelica Popović, Nenad Milovanović, Vesna Mijatović.





**Fig. 57.** Milan S. Dimitrijević and Petar Vuca beside the plaque commemorating the total Solar eclipse observation by Foundry in Kikinda. The text on the plaque: *11. 8. 1999. citizens observed here as a group the last total Solar eclipse in the second millennium under guidance of Milan S. Dimitrijević, Luka Č. Popović and Petar V. Vuca. The eclipse lasted from 11:30:37 to 14:28:24 and was total from 12:54:38 to 12:56:12.*



**Fig. 58.** Luka Č. Popović, Edi Bon and Irina Arturovna Egorova (December 2000).



**Fig. 59.** Vesna Mijatović (December 2000).



**Fig. 60.** Dragomir Olević and Vesna Mijatović (December 2000).