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MILAN S. DIMITRIJEVIĆ

LINE SHAPES INVESTIGATIONS
IN YUGOSLAVIA II (1985-1989)
(Bibliography and Citation Index)

ISTRAŽIVANJE OBLIKA SPEKTRALNIH LINIJA
U JUGOSLAVIJI II (1985-1989)
(Bibliografija i indeks citata)



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SUMMARY: First part of the publication contains review and analysis of the results of spectral line shapes investigations in Yugoslavia in the period 1985–1989. In the second part, the bibliography of the contributions of Yugoslav scientists is given, together with the citation index.

REZIME: U prvom delu publikacije dat je pregled i analiza istraživanja oblika spektralnih linija u Jugoslaviji u periodu 1985–1989 godine. U drugom delu data je bibliografija radova jugoslovenskih istraživača, sa istorijatom uticaja svakog objavljenog dela na savremenu nauku, što je urađeno navođenjem izvora u kojima su objavljeni članci citirani.

I. SPECTRAL LINE SHAPES INVESTIGATIONS IN YUGOSLAVIA 1985-1989

The recently published Bibliography and citation index on Spectral Line Shapes Investigations in Yugoslavia, covers the period 1962 - August 1985 (Dimitrijević, 1990). In the period September 1985 - December 1989, 242 articles concerning line shapes investigations have been published by Yugoslav authors (as compared to 371 in the period 1962 - August 1985), as well as 4 Ph. D. and 3 M. Sc. Theses. Consequently, since the first article on this topic (Vujnović et al, 1962) up to the end of 1989, 613 bibliographic items have been published by 89 Yugoslav authors. The number of published articles, authors, B. Sc., M. Sc., and Ph. D. theses are given in Table 1 for each year.

Research on Spectral Line Shapes in Yugoslavia, is developed in several institutions and cities as Institute of Physics in Zemun, Faculty of Physics and Astronomical Observatory (Belgrade), Institute of Physics of the University (Zagreb) and Faculty of Sciences (Novi Sad).

In the considered period various problems have been investigated. Stark broadening of hydrogen and hydrogen-like emitter lines, has been investigated in particularly for H-beta line dip-, and peaks-shift, central structure and profiles (426, 427, 483, 527, 587); He II Balmer beta line widths (599), and He II P-alpha line plasma shifts (532). Also, the attention is paid to the influence of the glass-to-plasma boundary layers in T-tube hydrogen plasmas on line intensities (429), profiles (483) and line to continuum intensity ratios (428), and, to the transition of hydrogen line spectrum in continuum (502).

A lot of work has been done also on the experimental determination of Stark broadening parameters of nonhydrogenic atoms and ions: Stark broadening of following atoms and ions has been investigated:

Ar I, II, III, IV (411, 431, 472, 545, 581, 606); Br I, II (521, 524, 526, 582); C II, III, IV (407, 522, 530); Cl I, II, III, IV (405, 493, 524, 525, 551, 582); F I, III (524, 525, 582); HeI (383, 436, 444, 445, 531, 560, 586, 588, 607, 612); I I (523, 524, 582); Kr I, II, III (411, 431, 472, 555, 606, 608); Ne I, II, III, IV (411, 431, 434, 435, 472, 487, 489, 490, 545, 550, 606); N II, III, IV, V (432, 492, 530, 547); O III, IV, V (491, 547, 548); Si II (598); Xe II, III (411, 431, 472, 606), Zn I (380). Also, the influence of ion dynamics has been investigated (471, 588, 531). In order to illustrate the contribution of Yugoslav scientists, in Table 2 is presented the number of references concerning experimentally determined Stark broadening parameters from Yugoslav authors and from others, cited in the review of Konjević and Wiese (1990) covering the period from 1982 year. One can see that an especially significant contribution exists in the case of multiply charged ions.

Theoretical investigations of non hydrogenic emitter Stark broadening were developed in several directions. An especial effort has been done in order to develop and test the modified semiempirical method (Dimitrijević and Konjević, 1980). This method, originally developed for the ion line widths, has been extended to the Stark shifts also (396, 397, 398, 460, 461, 462, 569, 592), and a simple formula useful especially in astrophysics has been derived (459). Moreover, a simple semiclassical method for evaluation of Stark broadening parameters of neutral atom lines has been developed (393, 394, 395). An effort has been done also to develop a method for simple estimates of Stark widths along a homologous sequence (400, 573, 574, 575) and a method useful especially in astrophysics, based on the systematic dependence on the ionization potential (488, 514, 518). Approximate methods have been used and tested on numerous examples (409, 410, 414, 475, 507, 508, 509, 559, 591, 593, 594, 595, 596, 597).

Using the semiclassical perturbation approach (Sahal-Bréchet, 1969a,b), the spectra of following elements have been investigated: Ga II, III (392), Cu I (581, 614), Cu IV (512, 571), Ar II (403, 404), C IV (465, 467, 511, 515, 576), K I (466, 468), Si II (478, 534), Si IV (519, 579), Li-like ions (578). The influence of the perturber path deflection from straight line, due to the back reaction of neutral emitter on Stark broadening and collision phase shifts, has been investigated (406, 569) as well as plasma screening effects on Stark broadening at the adiabatic limit (513, 570, 572) and the influence of resonance structures in electron scattering cross sections on Stark broadening (392).

A special attention has been paid in a number of papers to the investigation of regularities and systematic trends of Stark broadening parameters (389, 400, 401, 402, 403, 404, 411, 431, 433, 463, 466, 468, 472, 488, 492, 501, 519, 520, 524, 544, 545, 546, 547, 548, 551, 559, 566, 605). Similarities of Stark broadening parameters within the same multiplets (403, 404), supermultiplet (403, 404), transition array (389) and spectral series (401, 402, 466, 468, 519) have been examined. Also, systematic trends for the same type of transition within a homologous and isoelectronic sequence (549) as well as the dependence of Stark broadening parameters on the ionization potential and on the element ordinal number, giving as the result simple formulae of astrophysical importance (520, 544, 545, 547, 548, 551). An investigation on similarities and regularities for line broadening due to collisions with neutral perturber has also been carried out with the special intention to improve the Van der Waals formula (464, 514, 516).

Astronomical aspects of spectral line shapes research were also investigated, as the limb effect, shapes and asymmetries and bisectors of solar spectral lines (382, 415, 416, 442, 443, 477, 498, 499, 500, 611), Na abundance in Solar atmosphere (379), spectral analysis of a white light flare (494), Be stars spectra (447, 504), mechanisms of neutral oxygen line formation in stellar shells (456, 457, 458), development and weakening of shell spectrum of 88 Herculis, (528), Fe II lines in the spectrum of Am 15 Vulpeculae (300), and, Stark shifts in spectra of hot DA white dwarfs (413, 533), microturbulence and spectral line shapes (378), and Lyman alpha line transfer in chromospheric conditions (450). On Astronomical Observatory in Belgrade the Belgrade programme for monitoring

of activity — sensitive spectral lines of the Sun as a star, during a 11-years Solar cycle is in the course of realization (446, 559).

In order to obtain a better connection between astronomical observations and theoretical interpretations of astrophysical spectra, the radiative transfer investigations have also been carried out (376, 384, 385, 386, 448, 449, 451, 452, 553, 561).

In a number of papers, satellite and diffuse bands of NaCd (539, 543, 562, 604), KHg (540), NaHg(562), and TlHg(541) excimers have been studied as well as the spectrum and the photochemical production of NaCd (529, 584, 585), LiMg (542) and metal vapor (486) excimers. Continua, satellite and diffuse bands have been studied also (422, 424, 482, 485, 505, 564, 565), particularly on the case of alkali vapors (381, 387, 412, 418, 430, 437, 439, 453, 473, 474, 479, 503, 538, 600, 601, 602, 603). Moreover, ionization of lithium vapor by CW quasisresonant laser radiation (438, 496), fluorescence in dimers and diatomic molecules (417, 419, 420), laser induced chemiluminescence (555), collisional population of K₂ atomic states (589), spectroscopy of collisional and radiative processes of importance for the interpretation of spectra of diatomic molecules (388, 425, 480, 484, 495, 506, 552, 609), intermediate and long range interaction potentials of heteronuclear and homonuclear alkali dimers and quasimolecules (421, 423, 481, 503, 536, 552) and interaction potentials, oscillator strengths, and quasistatic line shapes for Eu-Sr quasimolecule, have been investigated.

The contribution and influence of Yugoslav scientists in the international effort on investigation and interpretation of line shapes is well illustrated by the bibliography and citation index presented in the second part.

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TABLES — TABELE

Table 1. Number of articles, authors, B. Sc., M. Sc., and Ph. D. theses in the period 1962-1989.

Broj radova, autora, diplomskih, i magistarskih radova i doktorskih disertacija u periodu 1962-1989.

Year godina	No. of publications Br. članaka	No. of authors Br. autora	B. Sc Dipl.	M. Sc. Mag.	Ph. D Dokt.
1962	1	1			
1963	0				
1964	2	2			
1965	1	1			
1966	0				
1967	0				
1968	2	4			
1969	4	4		1	
1970	15	13			
1971	11	9	1	2	
1972	10	11			1
1973	10	13	2	1	
1974	16	16	1		1
1975	14	15	2	1	
1976	23	16	1	1	
1977	13	14	1	1	1
1978	23	16		1	1
1979	17	14		1	
1980	30	19	1		
1981	26	17	1		1
1982	46	19	1		2
1983	32	20		1	
1984	44	22		1	1
1985	43	23		1	1
1986	62	33	3	1	
1987	58	33			
1988	65	34			
1989	55	34		3	
Total Ukupno	613				

Table 2. The number of references concerning experimentally determined Stark broadening parameters from Yugoslav authors and from others, cited in (Konjević, Wiese, 1990)

Broj referenci u kojima se daju eksperimentalni podaci za parametre Štarkovog širenja, od Jugoslovenskih i drugih autora, a koje su citirane u pregledu Konjevića i Wiese-a (1990).

Element Element	Yugoslav authors Jugoslovenski autori	Others Ostali
<i>Neutrals — Neutrali</i>		
Al I	—	2
Ar I	1	7
Br I	1	—
C I	—	3
Cl I	1	1
Co I	1	—
Cs I	2	1
Cu I	1	2
F I	2	1
Fe I	—	1
Ga I	—	1
Ge I	—	1
He I	1	1
Hg I	—	1
In I	—	1
K I	—	1
Kr I	—	1
Ne I	2	1
O I	—	2
P I	—	1
S I	—	2
Xe I	—	1
<i>Singly charged ions — Jednostruko naelektrisani joni</i>		
Al II	2	—
Ar II	1	4
Bi II	1	—
Br II	1	—
C II	1	2
Ca II	—	1
Cl II	1	—
Cr II	1	—
Cu II	—	2
Ga II	—	1

(continuation)

Element Element	Yugoslav authors Jugoslovenski autori	Others Ostali
In II	—	1
Kr II	2	1
N II	2	1
Ne II	3	—
O II	1	—
P II	1	1
Pb II	1	—
S II	—	2
Sb II	1	—
Si II	1	1
Sn II	1	—
Xe II	3	2
<i>Doubly charged ions - Dvostruko naelektrisani joni</i>		
Ar III	2	—
C III	1	1
Cl III	1	—
F III	1	—
Kr III	1	—
N III	1	1
Ne III	2	—
O III	1	—
Si III	—	1
Xe III	1	—
<i>Triply charged ions - Trostruko naelektrisani joni</i>		
AR IV	1	—
C IV	1	4
Cl IV	1	—
N IV	1	—
Ne IV	1	—
O IV	1	—
<i>Other ions - Ostali joni</i>		
N V	1	2
O V	1	—
O VI	—	1

ISTRAŽIVANJA OBLIKA SPEKTRALNIH LINIJA U JUGOSLAVIJI 1985–1989

Nedavno objavljena Bibliografija i indeks citata o istraživanjima oblika spektralnih linija u Jugoslaviji, pokriva period od 1962. do avgusta 1985. (Dimitrijević, 1990). U periodu od septembra 1985. do decembra 1989. godine, objavljena su 242 članka koji se odnose na istraživanje oblika linija (u poređenju sa 371 člankom jugoslovenskih autora u periodu 1962. – avgusta 1985), kao i 4 doktorske i 3 magistarske teze. Shodno tome, od prvog članka u ovoj oblasti (Vujnović et al., 1962) pa do kraja 1989, objavljeno je 613 bibliografskih jedinica od ukupno 89 jugoslovenskih autora. Broj objavljenih članaka, autora, diplomskih radova, magistarskih i doktorskih teza dat je za svaku godinu u Tabeli 1.

Istraživanje oblika spektralnih linija u Jugoslaviji odvija se u nekoliko institucija i gradova i to u Institutu za fiziku u Zemunu, Fakultetu za fiziku i Astronomskoj opservatoriji (Beograd), Institutu za fiziku Sveučilišta (Zagreb) i Prirodno-matematičkom fakultetu (Novi Sad).

U razmatranom periodu istraživani su različiti problemi. Štarkovo širenje linija vodonika i vodoniku sličnih jona, ispitivano je na primeru centralnog udubljenja, pomaka pikova, centralne strukture i profila H-beta linije (426, 427, 483, 527, 587); širine Balmer-beta linije He II (599), i plazmenog pomaka linije He II P-alfa (532). pažnja je takođe posvećena: istraživanju uticaja graničnog sloja između stakla i plazme u vodoničnoj plazmi T-cevi na intenzitete linija (429); profilima (483); odnosu intenziteta linije i kontinuuma (428); i, prelazu vodoničnog linijskog spektra u kontinuum (502).

Veliki je trud uložen i u eksperimentalno određivanje parametara Štarkovog širenja nevodoničnih atoma i jona. Bilo je istraživano Štarkovo širenje sledećih atoma i jona: Ar I, II, III, IV (411, 431, 472, 545, 581, 606); Br I, II (521, 524, 526, 582); C II, III, IV (407, 522, 530), Cl I, II, III, IV (405, 493, 524, 525, 551, 582); F I, III (524, 525, 582); He I (383, 436, 444, 445, 531, 560, 586, 588, 607, 612); I I (523, 524, 582); Kr I, II, III (411, 431, 472, 555, 606, 608); Ne I, II, III, IV (411, 431, 434, 435, 472, 487, 489, 490, 545, 550, 606); N II, III, IV, V (432, 492, 530, 547); O III, IV, V (491, 547, 548); Si II (598); Xe II, III (411, 431, 472, 606); Zn I (380). Takođe, bio je istraživan i uticaj dinamike jona (471, 588, 531). Da bi se ilustrovao doprinos jugoslovenskih naučnika, u Tabeli 2 je predstavljen broj referenci koje se odnose na eksperimentalno određivanje parametara Štarkovog širenja, kako jugoslovenskih autora, tako i ostalih, koji su citirani u pregledu Konjevića i Wiese-a (1990) i koji pokriva period od 1982. godine. Može se videti da posebno značajan doprinos postoji u slučaju višestruko naelektrisanih jona.

Teorijska istraživanja Štarkovog širenja nevodoničnih emitera, razvijala su

se u više pravaca. Poseban napor je učinjen da se razvije i testira modifikovani semiempirijski metod (Dimitrijević i Konjević, 1980). Ovaj metod, koji je u originalnom obliku razvijen za širine jonskih linija, proširen je na Štarkove pomake (396, 397, 398, 460, 461, 462, 569, 592), a na osnovu njega je izvedena jednostavna formula, koja je posebno korisna u astrofizici (459). Osim toga, razvijen je i jednostavan semiklasični metod za procenu parametara Štarkovog širenja linija neutralnih atoma (393, 394, 395). Radilo se takođe na razvijanju metoda za jednostavnu procenu Štarkovih širina duž niza homolognih emitera (400, 573, 574, 575) i na razvoju metoda zasnovanog na sistematskoj zavisnosti od jonizacionog potencijala (488, 514, 518). Aproksimativni metodi su testirani i korišćeni na brojnim primerima (409, 410, 414, 475, 507, 508, 509, 559, 591, 593, 594, 595, 596, 597).

Koristeći semiklasični perturbacioni prilaz (Sahal-Bréchet, 1969a,b), istraživani su spektri sledećih elemenata: Ga II, III (392), Cu I (581, 614), Cu IV (512, 571), Ar II (403, 404), C IV (465, 467, 511, 515, 576), K I (466, 468), Si II (478, 534), Si IV (519, 579) i litijumu slični joni (578). Istraživan je i uticaj odstupanja putanje perturbera od prave linije, usled povratne reakcije neutralnog emitera, na Štarkovo širenje i fazni pomak (406, 569) kao i uticaj Debajevog ekraniranja na Štarkovo širenje na adijabatskoj granici (513, 570, 572) i uticaj rezonantnih struktura u preseku za rasejanje elektrona, na parametre širenja (392).

U brojnim radovima su istraživane regularnosti i sistematski trendovi parametara Štarkovog širenja (389, 400, 401, 402, 403, 404, 411, 431, 433, 463, 466, 468, 472, 488, 492, 501, 519, 520, 524, 544, 545, 546, 547, 548, 551, 559, 566, 605). Takođe su istraživane sličnosti parametara Štarkovog širenja u okviru istog multiplleta (403, 404), supermultiplleta (403, 404), skupova prelaza (389) i spektralnih serija (401, 402, 466, 468, 519), kao i sistematski trendovi za isti tip prelaza u homolognim (400, 411, 431, 463, 472, 488, 501, 524, 559) i izoelektronskim nizovima (549) a osim toga i zavisnost parametara širenja od rednog broja elemenata i jonizacionog potencijala, što je kao rezultat dalo proste formule, koje su od interesa za astrofiziku (520, 544, 545, 547, 548, 551). Takođe je izvedeno istraživanje sličnosti i regularnosti u slučaju linija proširenih sudarima sa neutralnim perturberima, sa ciljem da se poboljša Van der Waalsova formula (464, 514, 516).

Pažnja je posvećena i astronomskim aspektima istraživanja spektralnih linija, kao što su limb efekat, profili, asimetrije i bisektori spektralnih linija Sunca (382, 415, 416, 442, 443, 477, 498, 499, 500, 611), zastupljenost Na u Sunčevoj atmosferi (379), spektralna analiza hromosferske erupcije u beloj svetlosti (494), spektri Be zvezda (447, 504), mehanizmi formiranja linija neutralnog vodonika u zvezdanim omotačima (456, 457, 458), razvoj i slabljenje spektra omotača 88 Herculis (528), Fe II linije u spektru Am 15 Vulpeculae (300), Štarkovo širenje u spektrima toplih DA belih patuljaka (413, 533), mikroturbulencija i profili spektralnih linija (378) i prenos Lajman alfa linije u hromosferskim uslovima (450). Na Astronomskoj opservatoriji u Beogradu, u toku je realizacija Beogradskog programa za praćenje spektralnih linija Sunca kao zvezde, u toku 11-togodišnjeg ciklusa njegove aktivnosti (446, 559).

Da bi se uspostavila bolja veza između astronomskih posmatranja i teorijske interpretacije astrofizičkih spektara, vrše se takođe i istraživanja prenosa zračenja (376, 384, 385, 386, 448, 449, 451, 452, 553, 561).

U nizu članaka, izučavani su sateliti i difuzne trake NaCd (539, 543, 562, 604), KHg (540), NaHg(562), i TlHg(541) ekscimera, kao i spektar i fotohemijska produkcija NaCd (529, 584, 585), i LiMg (542) ekscimera, kao i ekscimera u slučaju metalnih para (486). Takođe su proučavani kontinuumi, sateliti i difuzne trake (422, 424, 482, 485, 505, 564, 565), i to naročito u slučaju alkalnih para (381, 387, 412, 418, 430, 437, 439, 453, 473, 474, 479, 503, 538, 600, 601, 602, 603). Osim toga, istraživani su jonizacija pare litijuma kvazirezonantnim CW laserskim zračenjem (438, 496), fluorescencija u dimerima i dvoatomnim molekulima (417, 419, 420), laserski indukovana hemiluminescencija (555), sudarna populacija atomskih stanja K (589), spektroskopija sudarnih i radijativnih procesa od značaja za interpretaciju spektara dvoatomnih molekula (388, 425, 480, 484, 495, 506, 552, 609), intermedijarni i dugodometni interakcioni potencijali heteronuklearnih i homonuklearnih alkalnih dimera i kvazimolekula (421, 423, 481, 503, 536, 552), i interakcioni potencijali, jačine oscilatora i kvazistatički profili linija Eu-Sr kvazimolekula.

Uticaj Jugoslovenskih stvaralaca i njihov doprinos međunarodnim naporima na istraživanju i interpretaciji profila spektralnih linija, dobro ilustruje bibliografija sa indeksom citata, koja je data u drugom delu.

II. BIBLIOGRAPHY AND CITATION INDEX

BIBLIOGRAFIJA I INDEKS CITATA

INTRODUCTION

The bibliography with the citation index is divided in two parts. In the first part is given the citation index of articles from 1962–1985 period, given in Dimitrijević (1990), with the same numeration. In the second part is the bibliography of articles up to the end of 1989 (1985–1989 period and the bibliographical items not included in Dimitrijević (1990) and the corresponding citation index. Besides the included citations, papers of Yugoslav scientists are largely cited in the bibliographical reviews: Dimitrijević (1990), Teleki (1987) and Bibliografski zbornik PMF (1990). I tried to see personally each paper included. After each paper of Yugoslav authors, data on articles where the considered paper is cited are given. For citations already existing in the bibliography of Yugoslav authors, only short data are given.

UVOD

Bibliografija sa indeksom citata podeljena je u dva dela. U prvom delu dat je indeks citata članaka iz perioda 1962–1985, koji su ušli u prethodni pregled (Dimitrijević, 1990), sa istom numeracijom. U drugom delu je bibliografija članaka do kraja 1989 (period 1985–1990 i bibliografske jedinice koje nisu uključene u prethodni pregled (Dimitrijević, 1990)) i odgovarajući indeks citata. Osim uključenih citata, članci Jugoslovenskih autora su u velikom broju citirani u bibliografskim pregledima: Dimitrijević (1990), Teleki (1987) i Bibliografski zbornik PMF (1990). Svaki uključeni članak pokušao sam da vidim lično. Posle svakog članka Jugoslovenskih autora, dati su podaci o člancima gde je razmatrani članak citiran. Za članke koji već postoje u bibliografiji jugoslovenskih autora, dati su samo skraćeni podaci.

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III. APPENDIX — PRILOG

III.1. Articles with 20 or more citations Članci koji su 20 ili više puta citirani

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| 41. Dimitrijević, M. S., Konjević, N.: 1987, <i>Astron. Astrophys.</i> 172, 345. | 21 |

III.2. Yugoslav scientists — Jugoslovenski istraživači

Name Ime	First paper Prvi članak	Last paper Zadnji članak	No. of papers Br. članaka
Acinger, K.:	1970	1972	3
Arsenijević, J.:	1987	1988	4
Atanacković Vukmanović, O.:	1985	1989	12
Azinović, D.:	1989	1989	1
Beuc, R.:	1980	1989	23
Bojović, V.:	1971	1971	1
Bosanac, S.:	1982	1987	4
Cekić, M.:	1983	1984	2
Čelebonović, V.:	1982	1982	1
Čerić, V.:	1974	1974	2
Ćirković, Lj.:	1968	1987	38
Ćuk, M.:	1980	1989	27
Dimitrijević, M. S.:	1974	1989	169
Djeniže, S.:	1973	1989	33
Djurić, Z.:	1988	1989	3
Djurović, S.:	1975	1989	12
Džimberg, V.:	1981	1981	1
Erkapić, S.:	1989	1989	1
Fijan, D.:	1987	1989	8
Francuski, T.:	1989	1989	1
Glavonjić, V.:	1978	1981	6
Grubor, D	1973	1981	3
Grujić, P.:	1970	1979	11
Hadžiomerspahić, D.:	1972	1973	3
Henč-Bartolić, V.:	1988	1988	1
Istrefi, L.:	1981	1988	5
Jankov, S.:	1985	1987	4
Kajzer, M.:	1978	1978	1
Karabin, M.:	1987	1987	1
Knežević, V.:	1978	1978	1
Kobilarov, R.:	1982	1989	6
Koković, M.:	1975	1975	1
Koledin, D.:	1979	1979	1
Konjević, N.:	1969	1989	119
Konjević, R.:	1985	1988	4
Kostić, B.:	1977	1977	1
Kršljanin, V.:	1984	1989	26
Kubičela, A.:	1986	1988	7
Labat, J. M.:	1968	1989	40
Labat, O.:	1980	1988	6
Lakićević, I. S.:	1973	1985	57
Logožar, R.:	1988	1988	2
Lokner, V.:	1980	1983	2

Milan S. Dimitrijević

Malešević, M.:	1989	1989	1
Manola, S.:	1982	1989	6
Marić, Z.:	1976	1976	1
Marinković, M. D.:	1964	1964	1
Mićunović, J.:	1974	1974	1
Mihajlov, A. A.:	1983	1989	1
Mijatović, Z.:	1989	1989	8
Mijović, S.:	1986	1988	3
Miler, D.:	1970	1973	3
Milosavljević, M.:	1987	1989	4
Milošević, S.:	1981	1989	31
Milošević, Z.:	1976	1976	1
Mitrović, V.:	1970	1971	2
Modrić, D.:	1986	1989	6
Movre, M.:	1976	1989	44
Palle, M.:	1986	1986	1
Panić, K.:	1980	1980	1
Pantelić, D.:	1989	1989	1
Pavlov, M.:	1968	1987	10
Pichler, G.:	1970	1989	102
Platiša, M.:	1970	1989	44
Popović, M. M.:	1973	1989	10
Popović, M. V.:	1972	1989	19
Popović, S.:	1975	1975	1
Purić, J. M.:	1968	1989	104
Radivojević, D.:	1970	1971	2
Radujkov, V.:	1975	1986	4
Rathore, B.:	1982	1987	16
Rukavina, J.:	1980	1980	1
Sotirovski, P.:	1987	1987	1
Ružđak, V.:	1974	1987	8
Srećković, A.:	1986	1989	25
Sušić, R.:	1973	1973	1
Škovrlj, Lj.:	1978	1978	2
Šternberg, Z. W.:	1978	1978	1
Terzić, M.:	1975	1987	4
Tonejc, A.:	1970	1972	5
Urošević, V.:	1973	1973	1
Uzelac, N. I.:	1985	1989	6
Vadla, Č	1972	1986	19
Veža, D.:	1978	1989	45
Vince, I.:	1983	1989	25
Vujičić, B. T.:	1982	1989	11
Vujnović, V.:	1962	1989	16
Vujović, O.:	1974	1974	1
Vukičević, D.:	1983	1985	3

III.3. Index of Yugoslav authors and their coauthors
Indeks Jugoslovenskih autora i njihovih koautora

- Abadie, D.: 290.
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III.4. Abbreviations — Skraćenice

- AIAAJ — American Institute of Aeronautics and Astronautics Journal
Ann. Phys. Suppl. — Annales de Physique Supplement
C. R. H. Acad. Sci. — Comptes Rendus Hebdomadaires de l'Academie des Sciences
ECAMP — European Conference on Atomic and Molecular Physics
ECAP — European Conference on Atomic Physics
ECR — Electron Cyclotron Resonance
EGAS — European Group for Atomic Spectroscopy
ERMA — European Regional Meeting on Astronomy
ESCAMPIG — European Study Conference on Atomic and Molecular Physics of Ionized Gases
ETF — Elektrotehnički fakultet
IAU — International Astronomical Union
ICPIG — International Conference on the Physics of Ionized Gases
ICSLS — International Conference on Spectral Line Shapes
IVTAN — Institut Vysokikh Temperatur Akademii Nauk
JETP — Journal of Experimental and Theoretical Physics
JQSRT — Journal of Quantitative Spectroscopy and Radiative Transfer
LGU — Leningradskij Gosudarstvenij Universitet
(Kongres) MFAJ — (Kongres) Matematičara fizičara i astronoma Jugoslavije
NBS — National Bureau of Standards
PMF — Prirodno-matematički fakultet
Sing. J. Phys. — Singaporean Journal of Physics
SPIG — Symposium on the Physics of the Ionized Gases
Z. Naturforsch. — Zeitschrift für Naturforschung
Z. Physik — Zeitschrift für Physik

