

MILAN S. DIMITRIJEVIĆ

LINE SHAPES INVESTIGATIONS IN YUGOSLAVIA 1962-1985  
(Bibliography and citation index)

ISTRAŽIVANJA OBLIKA SPEKTRALNIH LINIJA U JUGOSLAVIJI 1962-1985  
(Bibliografija i indeks citata)



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*To my parents*  
**SERGIJE and NADA**

*Roditeljima*  
**SERGIJU i NADI**





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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 1962–1985, with special emphasis on the importance of such investigations. 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 1962–1985. godine, pri čemu je posebna pažnja posvećena značaju ovakvih istraživanja. 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.



**PART I – DEO I**



## 1. SPECTRAL LINE SHAPES INVESTIGATION IN YUGOSLAVIA 1962–1985

As the typical information in astronomy is obtained by analyzing the radiation. The understanding of astrophysical spectral line shapes is of great importance. Spectral line shapes are an important research field, particularly in special laboratories and institutions formed in order to provide basic physical data to astronomers, as e.g. JILA (Joint Institute for Laboratory Astrophysics) in Boulder. Stark and other broadening mechanisms for lines in astrophysical spectra are also investigated within the commission 14 of the IAU for fundamental spectroscopic data.

Typical problems where spectral line shapes investigation is important, may be divided in following groups:

1) Quantitative and qualitative investigation of laboratory and astrophysical plasma spectra;

2) diagnostics of laboratory and astrophysical plasma;

3) research connected with thermonuclear fusion and laser produced plasma;

4) determination of chemical abundances in stellar atmospheres using absorption line profiles;

5) investigation of recombination radio line profiles in ionized hydrogen regions as e.g. Orion nebula;

6) radiation transfer through stellar and laboratory plasmas.

Spectral line shapes enter the analysis of a stellar spectrum essentially in two ways:

a) Selected lines from which we may derive information about stellar parameters require reliable line shape theory and data of high accuracy for the contribution of the main broadening mechanism.

b) For the bulk of ( $\geq 10^6$ ) lines, as well as for smaller contributions to the main broadening mechanisms, broadening parameters of only modest accuracy are sufficient. Such lines only add together to the total absorption coefficient, which determines the atmospheric stratification, and we need only the good average accuracy while the accuracy for a particular line is not so important.

Stellar spectroscopy depends on very extensive list of elements and line transitions with their atomic and line broadening parameters. It is difficult to state in general terms which are the relevant transitions since the atmospheric composition of a star is not known a priori, and many interesting groups of stars exist with very peculiar abundances as compared to the Sun.

The interest for line broadening data is stimulated also by the development of space research. Using space spectroscopy, an extensive amount of spectroscopic information over large spectral region of all kind of celestial objects has been and will be collected, stimulating line shapes research.

Since the first article on this topic (Vujnović et al., 1962) up to the august 1985, 371 publications concerning line shapes investigations have been published by 68 yugoslav authors. The number of published articles, authors, B.Sc., M.Sc., and Ph.D. theses are given in Table 1 for every year. One might point out that 113 articles are published in international journals during considered period. Also, 11 B.Sc., 15 M.Sc. and 9 Ph.D. theses have been done. Among the published articles 15 are in Astronomy and Astrophysics and 1 in Astrophysical Journal.

In published papers, different problems from this research field have been considered. Stark broadening investigation of hydrogen and hydrogen-like emitter lines, has a great practical importance and the corresponding attention has been paid in Yugoslavia to this problem (1, 4, 6, 71, 73, 78, 79, 86, 98, 110, 123, 128, 129, 142, 143, 151, 152, 154, 179, 216). Yugoslav scientists have experimentally determined Balmer line profiles (1, 4, 73, 151, 152), have studied broadening of the  $D_{\beta}$  line wings (6) as well as the neutral hydrogen and ionized hydrogen line shifts (129, 154). Particular attention has been paid to the investigation of the ion dynamic influence on the neutral hydrogen line shifts (154). Calculations of hydrogen line shapes were carried out also (143), as well as the study of back reaction influence on hydrogen line far wings (110, 123). Hydrogen spectrum near the ionization limit was investigated also (86, 142, 216).

Influence of typical colder boundary layer in T-tube, on hydrogen plasma spectral line shapes was also examined (78, 79, 98, 179). The results show that line widths are larger when the considered effect is taken into account, and that the influence of the mentioned effect increases if temperature and distance from the line center increase.

Up to date, a large experimental work on Stark broadening for nonhydrogenic emitters has been done in world and Yugoslavia, in laboratory plasmas with  $N_e = 2 \times 10^{13} - 4 \times 10^{17} \text{ cm}^{-3}$  and  $T = 2 \times 10^3 - 6 \times 10^4 \text{ K}$ . In figures 1-4, the situation according to the critical analysis of experimental data (91, 92, 310, 311) is shown as well as the Yugoslav research workers contribution (papers up to the middle of 1982). In figures are marked only such nonhydrogenic atoms and ions for which reliable experimental data are given in mentioned review articles. With dots are marked elements if only measurements of non Yugoslav authors are given, and with lines if there are only contributions of Yugoslav authors. We see in the figures that Stark broadening parameters are especially known for lighter elements. One can see also that number of data decrease with the increase of ionization degree. In the time of the publication of review articles (310, 311), reliable experimental data for nonhydrogenic ions four and more times charged did not exist.

In table 2 is summarized experimental work of Yugoslav scientists on nonhydrogenic spectral lines Stark broadening determination up to the middle of 1985. From 1962 up to the August of 1985, Stark widths of 360 lines have been measured for 38 elements of 58 different emitter species, if one takes into account different ionization stages also. Stark shift of 187 lines for 31 element and 33 different emitter species have been measured also and a new experimental technique for Stark shift measurement has been developed (44). Results obtained during experimental investigations of nonhydrogenic emitter Stark broadening have been reported in 98 papers.

Theoretical investigations of nonhydrogenic emitter Stark broadening were developed in several directions. In the frame of semiempirical approach, investigations on the applicability of existing theory have been done (14, 15, 27, 127, 150, 166, 167, 169) and new approaches (166, 167, 169, 199, 278, 302, 341) especially convenient for quick calculations of a large number of lines have been developed too. Particularly successful is the modified semiempirical approach (200, 305, 342). Such investigations have been done also in the frame of semiclassical approach (38, 57, 87, 88, 163, 167, 168, 233, 234, 241, 265, 268, 271, 272, 274, 277, 295, 299, 304, 306, 307, 343, 348). The theory for multiply charged ions has been improved (145, 150, 169). Stark broadening parameters for large number of lines of He I (234, 271, 272, 274, 299, 306, 307, 345, 346), Na I (343, 344), K I (347) and other elements, were calculated. The special attention has been paid to the spectral lines of heavy nonhydrogenic neutrals in plasma (232, 268, 297,



304). The work on a new quantum mechanical approach to the Stark broadening of neutral helium started also (149) and the first complete quantum mechanical (strong coupling) calculations for a nonhydrogenic neutral (196, 197) has been carried out. Research on Stark broadening of multiply charged ions was developed especially intensively. In this research field, the most of experimental (2, 54, 55, 59, 68, 70, 80–84, 94, 102, 116, 117, 135, 158, 205, 312) and theoretical (68, 80, 102, 116, 117, 123, 135, 146, 150, 158, 163–167, 178, 194, 198, 201, 233) results published in the period considered have been obtained by Yugoslav authors. The influence of the perturber path deflection from straight line, due to the back reaction of neutral emitter (88, 89, 110, 123–126, 147, 148, 300, 301) on Stark broadening has been investigated also. Results obtained show that the influence of the effect considered, increases with the decrease of temperature and with the increase of atom polarizability. In order to take into account this effect, corresponding modifications within semiclassical (123, 126) and adiabatic (147) theory have been made.

In several papers were investigated non isolated helium lines with forbidden components in laser produced plasma (224, 333, 334, 335, 364, 371), influence of Debye screening (242, 308) influence of different collisional processes on line broadening (231, 267) as well as the yield of resonances (autoionization) to the Stark Broadening (230, 266).

In large number of papers, regularities and systematic trends of Stark broadening parameters have been studied (53, 69, 104, 105, 108, 109, 113, 137, 138, 145, 153, 155, 159, 160, 165, 170–172, 175, 183–186, 193, 204, 206, 212, 215, 225, 229, 241, 243, 247, 253, 256, 264, 279, 280, 286, 289, 290, 307, 308, 312, 313, 326). Similarities of Stark broadening parameters within the same multiplet and transition array, have been examined. Also, systematic trends for the same type of transitions within a homologous and isoelectronic sequence and within a spectral series, have been studied as well as the dependence of Stark broadening parameters on ionization potential (184, 185, 186, 213, 303, 325, 339, 340), giving as the result simple formulas of astrophysical importance (339, 340, 353, 360, 361). Dependence on element ordinal number has been investigated too (183, 207, 214, 253).

During line shapes studies, attention has been paid and to purely astronomical problems. The influence of rotational motions on spectral line profiles in solar prominences and spiculas (121, 122, 141), Stark broadening of heavy solar ions (195, 226), experimentally measurable consequences of anomalous red shift on the symmetrical spectral line shape (93) and the influence of different line broadening mechanisms on solar limb effect (332, 368, 369, 370) has been studied.

Particularly often are cited and used critical reviews of experimental data for Stark broadening parameters of neutral (91, 310) and ionized (92, 311) emitters. In these reviews, available experimental data are systematized and critically evaluated, which enable their easier application in astronomy and physics research fields.

Complex experimental device with absorption cells and heat-pipe (see fig. 9), for the spectroscopic investigations in emission and absorption, has been developed in the Institute of physics of the University in Zagreb. Using this device, in a series of papers, self broadening in alkali metal vapors (64, 65, 76, 96, 97, 100, 111, 115, 131, 157, 176, 181, 182, 191, 209, 211, 218, 261) and self broadening of Ti 377,6 nm line (132, 133) has been studied. Assymetry of principal series lines of Cs (52, 60, 61, 66, 67, 99, 156) and Rb (156) was particularly investigated, far wings were studied and interaction potential and Van der Waals constant were determined using the principal series of Cs

(62, 63, 77, 130) and Rb (130). Also, peculiar wing asymmetry of Li and Na (292) resonance lines has been examined.

In several papers influence on spectral line shapes of emitter (absorber) non resonant interaction with neutral atoms has been examined. Van der Waals interaction in excited alkali dimers (356) has been studied. Wings (especially their asymmetry) of Na lines broadened by collisions with Cs, Rb and K (328, 329), wings of K lines broadened by collisions with Cs (187, 188, 217) and Ar (250), interaction potential between K and Ar (235, 236, 275) and the influence of K–Rb collisions on K lines within impact approximation (260, 291, 297) have been investigated.

Interference and diffuse continua in the  $Rb_2$  spectrum (285, 318, 354); triplet – triplet transitions in dense lithium vapors (330); triplet satellites in the spectrum of alkali homonuclear molecules (316, 367); satellites in alkali metal lines (144, 190, 221, 319); diffuse bands in absorption and emission spectra of dense Li,  $Li_2$ , Na,  $Na_2$ , K,  $K_2$  and Rb (251, 252, 283, 284, 316, 317, 320, 321, 322, 357, 365) and also triplet satellite bands in the wings of alkali lines (177, 189, 192, 210, 219, 262, 263, 293, 294, 331) have been studied. Finally, influence of collisional processes on line shapes connected with redistribution and radiative transfer problem (140, 161, 180, 298) has been examined.

In order to see the contribution of Yugoslav scientists, one might analyse also Bibliographies on atomic spectral line shapes and shifts for the period 1889–1978 (Fuhr et al. 1972, 1974, 1975, 1978 – complete references are after the introduction in Part II). Among 16 researchers with the largest number of bibliographic unities are 4 Yugoslav scientists (see Table 3).

## 2. ISTRAŽIVANJA OBLIKA SPEKTRALNIH LINIJA U JUGOSLAVIJI 1962–1985

S obzirom da se informacije o kosmosu van Sunčevog sistema dobijaju analizom zračenja, proučavanje i analiza astrofizičkih spektara ima veliki značaj. Istraživanje spektralnih linija je od važnosti za istraživačke programe specijalnih laboratorija i institucija osnovanih sa ciljem da obezbede osnovne fizičke podatke astronomima, kao na primer JILA (Joint Institute for Laboratory Astrophysics) u Boulderu. Proučavanje oblika spektralnih linija je takođe predmet rada komisije 14 za fundamentalne spektroskopske podatke, Međunarodne astronomske unije.

Tipični problemi za koje je važno proučavanje oblika linija mogu se podeliti na sledeće kategorije:

1) kvantitativno i kvalitativno proučavanje spektra iz laboratorijske i astrofizičke plazme;

2) dijagnostika laboratorijske i astrofizičke plazme;

3) istraživanja vezana za termonuklearnu fuziju i laserski proizvedenu plazmu;

4) određivanje zastupljenosti pojedinih elemenata u zvezdanim atmosferama na osnovu profila apsorpcionih linija;

5) ispitivanje profila rekombinacionih radiolinija u oblastima jonizovanog vodonika kao što je maglina u Orionu;

6) proučavanje transfera zračenja kroz stelarnu i laboratorijsku plazmu.

Prilikom analize zvezdanih spektara, podaci o obliku spektralnih linija ulaze u osnovnom na dva načina:

a) Izabrane linije pomoću kojih se mogu dobiti podaci o nekim pojavama i parametrima zvezdanih atmosfera, zahtevaju detaljnu analizu i pouzdanu teoriju oblika spektralnih linija.

b) Za veliki broj linija ( $10^6$ ), kao i za manje doprinose glavnom mehanizmu širenja linija, dovoljno je poznavati parametre širenja sa manjom tačnošću. Oblici takvih linija zajednički određuju totalni koeficijent apsorpcije, i potrebno je samo poznavanje parametara širenja sa dobrom srednjom tačnošću, dok tačnost pojedinog podatka nije toliko važna.

Za proučavanje zvezdanih spektara potrebno je poznavanje atomskih parametara i parametara širenja spektralnih linija za izuzetno veliki broj prelaza u spektrima različitih atoma i jonizacionih stanja. S obzirom da hemijski sastav zvezdane atmosfere nije poznat a priori, teško je unapred reći koji su nam sve podaci potrebni, a postoji mnogo interesantnih grupa zvezda čiji hemijski sastav znatno odstupa od Sunčevog.

Interes za podatke o oblicima spektralnih linija stimulisan je takođe razvojem kosmičkih istraživanja. Koristeći kosmičku spektroskopiju, prikupljena je i prikuplja se velika količina spektroskopskih informacija u širokom spektralnom području, za kosmičke objekte različite vrste, što posebno podstiče istraživanja oblika spektralnih linija

\*

Od prvog članka u ovoj oblasti (1), 68 jugoslovenskih naučnika je objavilo 371 rad o istraživanju oblika spektralnih linija, u periodu do avgusta 1985. godine. Broj publikacija, autora, diplomskih radova, magistarskih i doktorskih disertacija po godini dat je u Tabeli 1. Treba naglasiti da je od 371 objavljenih radova, 113 u međunarodnim časopisima kojih su 15 u *Astronomy and Astrophysics* a 1 u *Astrophysical Journal*. U

razmatranom periodu odbranjeno je 9 doktorskih i 15 magistarskih teza kao i 11 diplomskih radova.

U objavljenim radovima razmatrani su različiti problemi iz ove oblasti. Proučavanje Štarkovog širenja linija vodonika i vodoniku sličnih emitera ima veliki praktični značaj i kod nas je ovom problemu posvećena odgovarajuća pažnja (1, 4, 6, 71, 73, 78, 79, 86, 98, 110, 123, 128, 129, 142, 143, 151, 152, 154, 179, 216). Naši istraživači su eksperimentalno određivali profile Balmerovih linija (1, 4, 73, 151, 152), istraživali širenje na krilima  $D_{\beta}$  linije (6) kao i pomak linija neutralnog vodonika i jonizovanog helijuma (129, 154), pri čemu je naročita pažnja posvećena ispitivanju uticaja dinamike jona na pomak linija neutralnog vodonika (154). Takođe su izvedena i izračunavanja profila vodonikovih linija (143), kao i ispitivanje uticaja povratne sprege atoma vodonika koji zrači i perturbujućeg elektrona, na daleka krila vodonikovih linija (110, 123). Vršena su i istraživanja vodonikovog spektra kod granice jonizacije (86, 142, 216).

Ispitivan je takođe uticaj tipičnog hladnijeg graničnog sloja kod vodonične plazme u T cevi, na profile spektralnih linija (78, 79, 98, 179). Rezultati pokazuju da su širine linija veće kada se razmatrani efekat uzme u obzir, kao i da uticaj ovog efekta raste sa povećanjem temperature kao i sa udaljavanjem od centra linije.

Do danas je u svetu i kod nas izvršen obiman eksperimentalni posao na istraživanju Štarkovog širenja linija nevodoničnih emitera, u laboratorijskim plazmama gustine  $2 \times 10^{13} - 4 \times 10^{17} \text{ cm}^{-3}$  i temperature  $2 \times 10^3 - 6 \times 10^4 \text{ K}$ . Na slikama 1—4 data je analiza postojanja pouzdanih eksperimentalnih podataka u ovoj oblasti prema kritičkoj analizi Konjevića i dr. (91, 92, 310, 311) (Radovi objavljeni do sredine 1982), kao i doprinos naših istraživača. Na šematskim prikazima dela periodnog sistema, naznačeni su samo oni nevodonični atomi i joni, za koje postoje pouzdani eksperimentalni podaci za Štarkove parametre najintenzivnijih linija. Na tačkastoj podlozi dati su elementi za koje su merenja izvršili samo inostrani istraživači dok je pola podloge šrafirano ako postoje podaci i naših autora. Na šrafiranoj podlozi dati su elementi za koje su svi rezultati dobijeni od naših istraživača. Na ovim slikama se vidi, da su Štarkovi parametri naročito dobro poznati kod lakših elemenata. Takođe se vidi da broj dostupnih podataka opada sa porastom stepena jonizacije, te kod atoma koji su jonizovani 4 i više puta, pouzdani eksperimentalni podaci za nevodonične slučajeve u vremenu objavljivanja preglednih članaka (310, 311) nisu postojali.

Eksperimentalni rad naših istraživača na određivanju štarkovih parametara nevodoničnih spektralnih linija do sredine 1985. godine, sumarno je prikazan u Tabeli 2. Od 1962. godine pa do avgusta 1985. godine, izvršen je obiman posao u toku koga su izmerene Štarkove širine 360 linija, za 38 elemenata odnosno 58 različitih vrsta emitera ako uzmemo u obzir i jonizaciona stanja. Izmereni su takođe i Štarkovi pomaci 187 linija za 31 element odnosno 33 različitih emitera, pri čemu je razrađena i nova eksperimentalna tehnika za merenje Štarkovih pomaka (44). Rezultati do kojih se došlo u eksperimentalnom ispitivanju Štarkovih parametara nevodoničnih emitera saopšteni su naučnoj javnosti u 98 radova.

Teorijska istraživanja vezana za problematiku Štarkovog širenja nevodoničnih elemenata odvijala su se u više pravaca. U okviru semiempirijskog prilaza problemu, vršena su ispitivanja primenljivosti postojeće teorije (14, 15, 27, 127, 150, 166, 167, 169) a formulisani su i novi prilazi (166, 167, 169, 199, 278, 302, 341) specijalno pogodni za brza proračunavanja velikog broja linija. Naročiti uspehi pokazao je Modifikovani semiempirijski prilaz (200, 305, 342). Ovakva istraživanja vršena su i u okviru semiempirijskog prilaza (32, 67, 87, 88, 163, 167, 168, 230, 234, 241, 265, 268, 271, 272,

274, 277, 295, 299, 304, 306, 307, 343–348) pri čemu je izvršeno poboljšanje teorije za višestruko jonizovane atome (145, 150, 169) i izračunati parametri širenja za veliki broj linija HeI (234, 271, 272, 274, 299, 306, 307, 345, 346), NaI (343, 344), K I (347) i drugih elemenata. Posebna pažnja posvećena je linijama teških nevodoničnih neutrala u plazmi (232, 268, 297, 304). Takođe je započet rad na jednom novom kvantno mehaničkom prilazu širenja linija neutralnog helijuma (149) i izveden prvi potpuni kvantno mehanički proračun za parametre Štarkovog širenja nevodoničnog neutrala (196, 197). Naročito se intenzivno odvijao rad na istraživanju Štarkovog širenja kod višestruko jonizovanih emitera. U ovoj oblasti, većina eksperimentalnih (2, 54, 55, 59, 68, 70, 80–84, 94, 102, 116, 117, 135, 158, 205, 312) i teorijskih (68, 80, 102, 116, 117, 123, 135, 146, 150, 158, 163–167, 178, 194, 198, 201, 233) rezultata objavljenih u razmatranom vremenskom periodu dobijena je u našoj zemlji. Istražen je i uticaj odstupanja putanje perturbirana od pravolinijske, usled povratnog dejstva neutralnog emitera (88, 89, 110, 123–126, 147, 148, 300, 301) na Štarkovo širenje spektralnih linija. Rezultati su pokazali da uticaj efekta raste sa smanjenjem temperature i sa povećanjem polarizabilnosti atoma. Da bi se efekat uzeo u obzir, izvršene su odgovarajuće modifikacije u okviru semiklasične (123, 126) i adijabatske teorije (147).

U nekoliko radova istraživane su neizolovane linije helijuma sa zabranjenim komponentama u laserski proizvedenoj plazmi (224, 333, 334, 335, 364, 371), uticaj Debajevog ekraniranja (242, 308), uticaj različitih sudarnih procesa na širenje linija (231, 267) kao i doprinos rezonanci (autojonizacija) Štarkovom širenju (230, 266).

U velikom broju radova proučavane su regularnosti i sistematski trendovi kod Štarkovih parametara spektralnih linija (53, 69, 104, 105, 108, 109, 113, 137, 138, 145, 153, 155, 159, 160, 165, 170–172, 175, 183–186, 193, 204, 206, 212, 215, 225, 229, 241, 243–247, 253, 256, 264, 279, 280, 286, 289, 290, 307, 308, 312, 313, 326). Proučavane su sličnosti kod Štarkovih parametara linija u okviru istog multiplleta i grupe supermultiplleta. Takođe su proučavani i sistematski trendovi kod Štarkovih parametara za isti tip prelaza u okviru jednog homolognog kao i izoelektronskog niza i spektralnih serija a izučavana je i zavisnost parametara Štarkovog širenja od jonizacionog potencijala (184, 185, 186, 213, 303, 325, 339, 340) što je kao rezultat dalo proste formule od značaja za astrofizička proučavanja (339, 340, 353, 360, 361). Takođe je razmatrana i zavisnost Štarkovih parametara od rednog broja elemenata (183, 207, 214, 253).

Prilikom proučavanja oblika spektralnih linija, pažnja je posvećena i astronomskim problemima. Razmatran je uticaj rotacionih kretanja na profile spektralnih linija u Sunčevim prominencijama i spikulama (121, 122, 141), Štarkovo širenje teških jona na Suncu (195, 226), eksperimentalno merljive posledice anomalnog crvenog pomaka na oblik simetričnih spektralnih linija (93) i uticaj različitih mehanizama širenja spektralnih linija na Limb efekat na Suncu (332, 368–370).

Izuzetno se često pominje i koristi u inostranoj literaturi kritički pregled eksperimentalnih podataka za Štarkove parametre neutralnih (91, 310) i jonizovanih (92, 311) emitera. U ovim pregledima sistematizovani su i kritički procenjeni dostupni eksperimentalni podaci iz razmatrane oblasti, što je omogućilo njihovu širu primenu u nekim oblastima astronomije i fizike.

U Institutu za fiziku sveučilišta u Zagrebu, razvijen je složeni eksperimentalni uređaj sa apsorpcijskim kivetama i toplovodnim pećima (heat-pipe), kombinovanim sa tinjajućim pražnjenjem, za spektroskopska proučavanja u emisiji i apsorpciji (vidi sl. 9). Na njemu je u nizu radova istraživano rezonantno širenje u parama alkalnih metala (64,

65, 76, 96, 97, 100, 111, 115, 131, 157, 176, 181, 182, 191, 209, 211, 218, 261) i rezonantno širenje linije 377,6 nm talijuma (132, 133). Pri tome je posebno proučavana asimetrija linija glavne serije Cs (52, 60, 61, 66, 67, 99, 156) i Rb (156) i ispitivana su daleka krila linija, te određivani potencijal interakcije i Van der Valsova konstanta, pomoću glavne serije Cs (62, 63, 77, 130) i Rb (130). Takođe je istraživana pekulijarna asimetrija krila rezonantnih linija Li i Na (292).

U većem broju radova vršena su istraživanja uticaja nerezonantne interakcije emitera (apsorbera) sa neutralnim atomima na profil spektralne linije. Proučavana je Van der Valsova interakcija u pobuđenim alkalnim dimerima (356). Ispitivana su krila linija (i to posebno asimetrija) natrijuma proširenih sudarima sa Cs, Rb i K (328, 329), zatim krila linija neutralnog kalijuma, proširenih sudarima sa Cs (187, 188, 217) i Ar (250), potencijal interakcije između K i Ar (235, 236, 275) i uticaj K–Rb sudara na linije K u sudarnoj aproksimaciji (260, 291, 297).

Razmatrani su i interferentni i difuzni kontinuumi u  $Rb_2$  spektru (285, 318, 354), triplet–tripletni prelazi u gustim parama litijuma (330), tripletni sateliti u spektru homonuklearnih molekula alkalija (316, 367), sateliti u linijama alkalnih metala (144, 190, 221, 319), difuzne trake u absorpcionim i emisionim spektrima Li,  $Li_2$ , Na,  $Na_2$ , K,  $K_2$ , i Rb (251, 252, 283, 284, 316, 317, 320, 321, 322, 354, 357, 365) i tripletne satelitske trake u krilima spektralnih linija alkalija (177, 189, 192, 210, 219, 262, 263, 293, 294, 331). Osim toga izučavan je i uticaj sudarnih procesa na oblik linije, u vezi sa problemom redistribucije i prenosa zračenja (140, 161, 180, 298).

Uvid u doprinos jugoslovenskih istraživača može se postići i analizom Bibliografija o oblicima i pomacima atomskih linija u periodu od prvog rada u ovoj oblasti objavljenog 1889. pa do 1978. (Fuhr et al. 1972, 1974, 1975, 1978 – potpune reference su date posle uvoda u drugi deo). Među 16 naučnika koji su u ovom periodu zastupljeni sa najvećim brojem referenci, nalaze se i 4 jugoslovenska istraživanja (vidi Tabelu 3).

**TABLES AND FIGURES – TABELE I SLIKE**





Table 1. Number of articles, authors, B.Sc., M.Sc., and Ph.D. theses in the period 1962–1985.

Tabela 1. Broj radova, autora, diplomskih, i magistarskih radova i doktorskih disertacija u periodu 1962–1985.

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	3	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	31	19		1	
1984	41	22		1	1
1985	35	21		1	1

Table 2. Atom and ion Stark broadening parameters  $w$  and  $d$  measured by Yugoslav scientists. With  $a$  is denoted Josephson type plasma source;  $b$  – pulsed arc;  $c$  – T-tube;  $d$  – wall stabilized arc;  $e$  – Z-pinch;  $f$  – shock tube;  $g$  – pulsed discharge in a hollow cathode.  
 Tabela 2. Atomi i joni za koje su Jugoslovenski istraživači merili Štarkove parametre  $w$  i  $d$ . Sa  $a$  je označen izvor plazme Džozefsonovog tipa;  $b$  – impulsni luk;  $c$  – T-cev;  $d$  – zidno-stabilisani luk;  $e$  – Z-pinč;  $f$  – udarna cev;  $g$  – Varnično pražnjenje sa šupljom katodom

Element	No of lines for which is measured	Plasma source izvor plazme	T(K)	References Reference
Element	Broj linija za koje je mereno $w$ $d$			
He I	2    2	a, b	3700–39000	23, 358
Li I	2    2	c	15000–26000	113, 119

Table 2 (continued)

C I	9	—	d	12500—12700	40, 51, 72, 162
F I	28	9	c, d, e	17500—36200	39, 107, 120 203, 295
Na I	2	2	c	15000—26000	85, 106, 113 119
Al I	3	—	c	17500	173, 208
Si I	10	10	c	8700—25000	50, 54, 55, 70, 258
Cl I	7	3	b, e	8800— 9700	18, 19, 20, 33
Ar I	9	—	d	10100—12500	36, 45, 46
K I	2	2	c	15000—26000	85, 113, 119
Rb I	2	2	c	15000—26000	113, 114, 119
Cs I	1	1	c	15000—26000	173, 208, 248, 363
Ne I	20	20	c	12000—25000	258, 255, 324, 359
Co I	5	5	c	13700—18100	254, 258, 287
Ni I	1	1	c	13700—18100	258
Cu I	2	2	c	13700—18100	258
Zn I	3	3	c	13700—18100	258
Pd I	1	1	c	13700—18100	258
Ag I	2	2	c	13700—18100	254, 258
Br I	5	—	d	9400	314, 315, 351
Hg I	3	3	c	13700—18100	258
In I	4	4	c	13700—18100	258, 259
Be II	2	2	c, e	14200—34800	32, 43, 44, 49
C II	2	—	b	26300	136
N II	16	—	b, c, e	16200—32800	17, 30, 39, 84, 205, 237, 351
O II	21	—	b	25900	81, 82
F II	5	—	b	24200	94, 101, 116
Ne II	9	—	b	28300	118, 134, 313 350
Mg II	2	3	c, e	14200—34800	43, 44, 48 49
Si II	16	16	c	8700—26000	21, 26, 43, 54, 55, 70, 103, 139, 258, 282, 288
Cl II	35	32	b, c	13330—18600	22, 28, 29, 33, 35, 43

Table 2 (Continued)

Ar II	23	23	c, e	8500–31800	7, 16, 43, 54, 58, 205, 238, 276, 313, 350
Ca II	5	5	c, e	10300–34800	34, 37, 43, 44, 48, 49
Sr II	6	6	c, e	10300–34800	34, 43, 44, 48, 49
Ba II	5	5	c, e	14200–34800	32, 43, 48, 49
P II	5	5	c	6000–20000	247, 256, 280, 286, 363
In II	1	1	c	13700–18100	258, 299
Sn II	1	1	c	16000–20000	247, 256, 280, 286, 363
Sb II	1	1	c	16000–20000	247, 256, 280, 286, 363
Cr II	3	3	c	13700–18100	258, 281
Xe II	5	—	f	8000–10000	249, 276, 290, 313, 327, 350
Kr II	3	—	f	8000–10000	290, 350
Al II	3	3	c	16000–20000	363
Pb II	3	3	c	16000–20000	247, 256, 280, 286, 363
Bi II	4	2	c	16000–20000	247, 256, 280, 286, 363
Ne III	2	—	b	34000	312
Kr III	1	—	b	26000	312
Xe III	1	—	b	27000	312
N III	4	—	b	24300	84
O III	6	—	b	25900	81, 82
Si III	9	3	b, c	8700–25600	54, 55, 70, 117
Al III	8	—	g		2
S III	16	—	b	28500	135, 158
Cl III	15	—	b	24200	94, 102, 116
Ar III	8	—	b, e	21000–31800	59, 68, 80, 205
Si IV	4	—	b	25600	117
S IV	1	—	b	28500	135, 158
Ar IV	2	—	b	20750–22200	59, 68, 80
58	360	187		Total number – Ukupan broj	

Table 3. Scientists with the most bibliographical references in spectral line shapes investigations in the period 1889--1987 according to the bibliographies by Fuhr et al (1972, 1974, 1975, 1978).

Tabela 3. Istraživači sa najviše bibliografskih jedinica u istraživanju oblika spektralnih linija u periodu 1889--1978, prema bibliografijama Fuhr et al (1972, 1974, 1975, 1978).

No. — Br.	Name — Ime	No. Ref. — Br. ref.
1.	H.R. Greim	69
2.	J. Cooper	64
3.	S.Y. Ch'en	48
4.	E.W. Smith	35
5.	N. Konjević	33
6.	I.I. Sobel'man	28
7.	G.V. Sholin	26
8.	H. Margenau	25
9–12.	H.J. Kusch	27
9–12.	S. Sahal—Bréchet	22
9–12.	J. Purić	22
9–12.	H. Van Regemorter	22
13–14.	L. Herman	21
13–14.	M. Platiša	21
15–16.	R. Granier	20
15–16.	J. Labat	20

	a	I	b								VIII											
1				a	II	b	a	III	b	a	IV	b	a	V	b	a	VI	b	a	VII	b	He
2		Li									C			N			O			F		Ne
3		Na		Mg		Al		Si		P		S								Cl		Ar
4		K		Ca																		
				Zn				Ge												Br		Kr
5		Rb																				
				Cd				Sn														Xe
6		Cs																				
								Pb														

Fig. 1. Neutral emitters.

	a	I	b								VIII											
1				a	II	b	a	III	b	a	IV	b	a	V	b	a	VI	b	a	VII	b	
2				Be		B		C		N		O								F		Ne
3				Mg		Al		Si		P		S								Cl		Ar
4				Ca																		
				Zn				Ge														
5				Sr																		
				Cd				Sn														
6				Ba																		
				Hg				Pb		Bi												

Fig. 2. Singly charged ions.

	I							VIII	
	a	b							
1			a II b	a III b	a IV b	a V b	a VI b	a VII b	
2					C	N	O		
3					Si		S	Cl	Ar
4									
5									
6									

Fig. 3. Doubly charged ions.

	I							VII	
	a	b							
1			a II b	a III b	a IV b	a V b	a VI b	a VII b	
2					C	N			
3					Si		S	Ar	
4									
5									
6									

Fig. 4. Triply charged ions.

Figures 1–4. Emitters for which reliable experimental Stark broadening data exist for the most intensive lines (91, 92, 310, 311).

If only results obtained by non Yugoslav authors exist, the base is dotted. The base is partially dotted and partially with lines if results of Yugoslav and non Yugoslav authors exist, and only with lines if all results are obtained in Yugoslav laboratories.

Emiteri za čije najintenzivnije linije postoje pouzdani eksperimentalni podaci za Štarkove parametre (19, 82, 310, 311).

Ako postoje samo rezultati inostranih autora, podloga je tačkasta. Podloga je delimično tačkasta ako ima rezultata i naših i stranih autora a šrafirana je ako su svi postojeći rezultati dobijeni u našim laboratorijama.

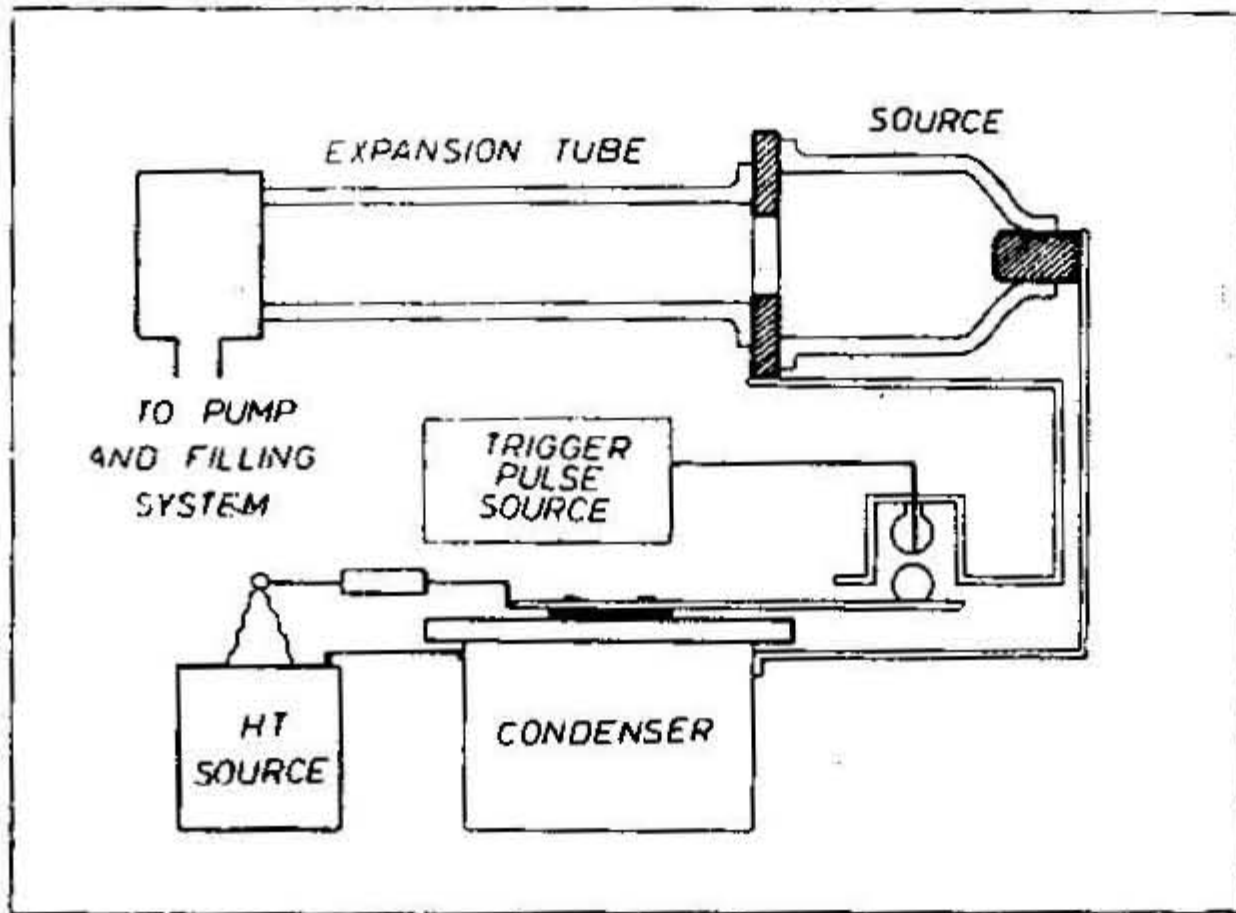


Figure 5. The plasma source of Josephson type.  
Izvor plazme je Džozefsonovog tipa.

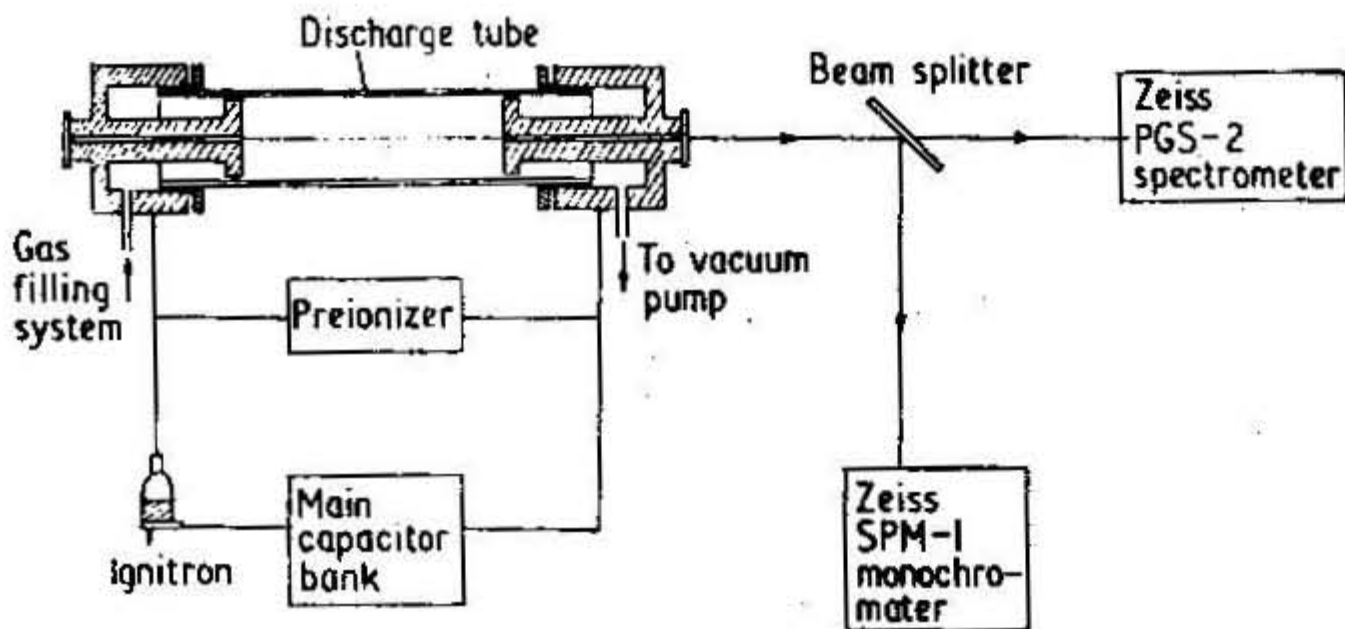


Figure 6. Pulsed arc.  
Impulsni luk.

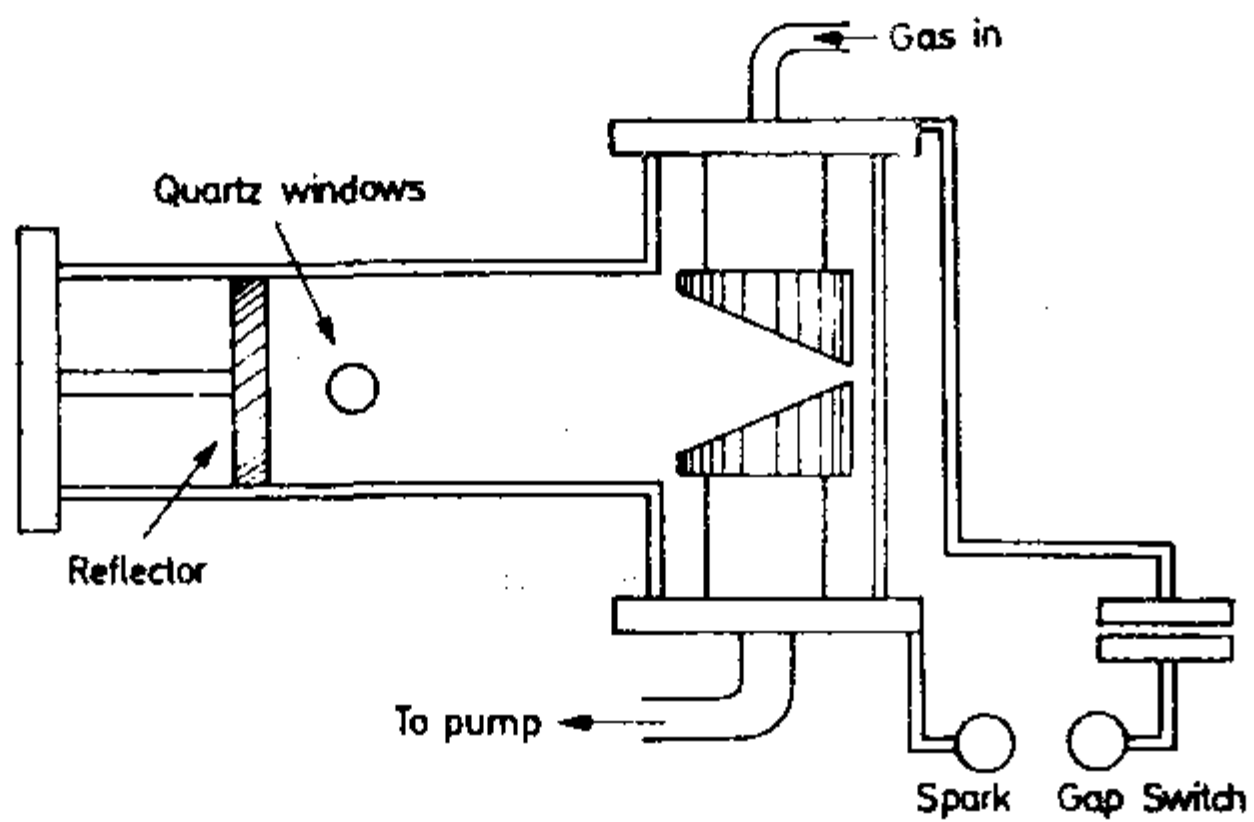


Figure 7. Electromagnetically driven T-tube.  
Elektro magnetski pokretana T cev

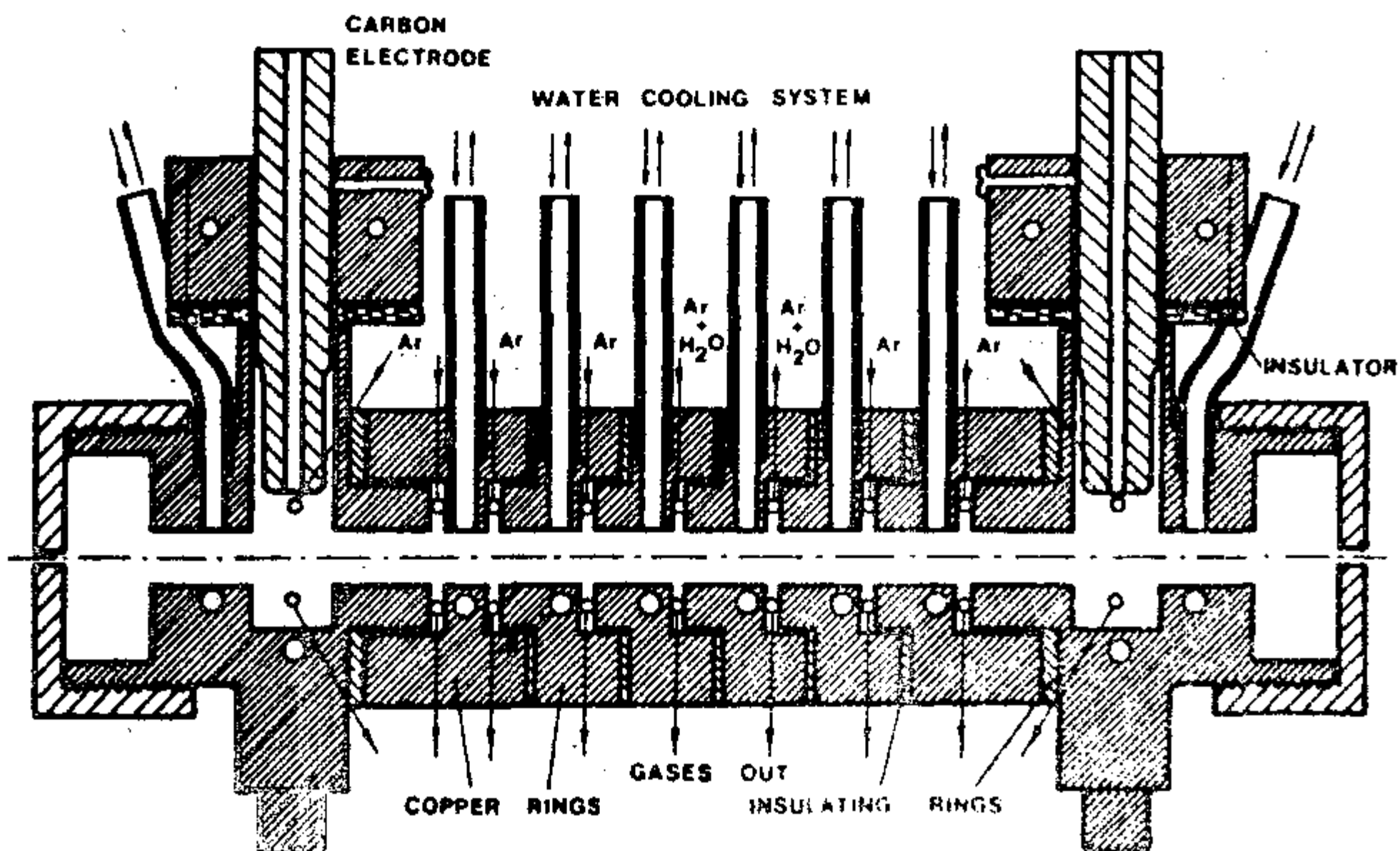


Figure 8. Wall stabilized arc.  
Zidno stabilisani luk.



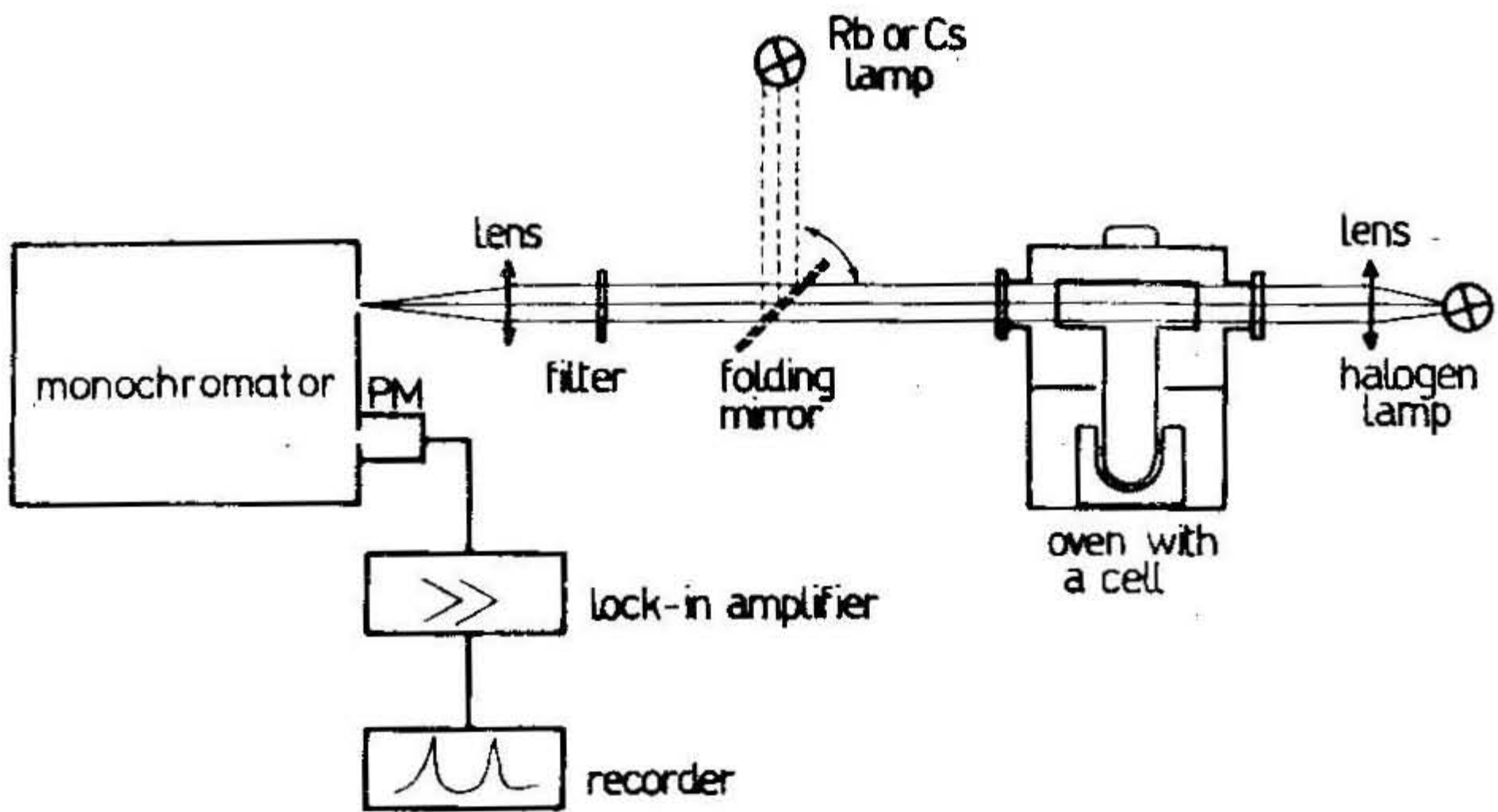


Figure 9. Low pressure lamp.  
Lampa sa niskim pritiskom.



**PART II – DEO II**



## 1. INTRODUCTION

Within bibliography and citation index, references available up to the end of august 1985 are included. Besides the included citations, papers of Yugoslav scientists are largely cited in following publications which include bibliographical reviews: Dimitrijević, Konjević (1981); Institute of Physics, Activities and abstracts of papers 1962–1974; 1974–1975, 1976–1980 and 1981–1985; Fuhr et al (1972, 1974, 1975, 1978) and Teleki (1985). I tried to see personally each paper included. From the letter of dr Lutfi Istrefi from Priština, I know the existence of 3 diploma works at University in Priština, wirtten in the period considered, namely:

1. N. Bytyqi: „On assymetrical broadening of spectral lines in plasma” (in albanian), Diploma work 1981.

2. Gëzim Killobocishta: „Spectral line profiles” (in albanian), diploma work, 1981.

3. Besnik Kondri: „Spectral line emission” (in albanian), diploma work, 1985.

Each paper of Yugoslav authors is numbered within bibliography and after, papers where the considered paper is cited are given. For citations, yet existing in the bibliography, only short data are given.

## 2. UVOD

U bibliografiji i indeksu citata obuhvaćene su reference dostupne zaključno sa avgustom 1985. godine. Osim uključenih citata, radovi jugoslovenskih autora navedeni u ovom pregledu citiraju se u velikom broju i u sledećim radovima, koji uključuju i bibliografske preglede: Dimitrijević, Konjević (1981); Institut za fiziku, Aktivnosti i sadržaji radova 1962–1974, 1974–1975, 1976–1980 i 1981–1985; Fuhr et al (1972, 1974, 1975, 1978) i Teleki (1985). Trudio sam se da sve navedene radove imam lično u rukama. Na osnovu pisma dr Lutfi Istrefija iz Prištine, saznao sam da su u razmatranom periodu u Prištini napisana tri diplomatska seminara iz ove problematike:

1. N. Bytyqi: „O asimetričnom širenju spektralnih linija plazme“ (na albanskom), diplomski seminar, 1981.

2. Gezim Kllobocishta: „Profil spektralne linije“ (na albanskom), diplomski seminar, 1981.

3. Besnik Kondri: „Emisija spektralnih linija“, (na albanskom), diplomski seminar, 1985.

Svaki rad jugoslovenskih autora u bibliografiji ima svoj redni broj a iza njega, navedeni su radovi u kojima je citiran. Pri tome su za citate koji se već nalaze kao posebne jedince u bibliografiji, dati samo skraćeni podaci.

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#### 4. APPENDIX – PRILOG

##### 4.1. Articles with 20 or more citations – Članci koji su 20 ili više puta citirani

	No of citations Br. citata
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2. Konjević, N., Purić, J., Ćirković, Lj., Labat, J.: 1970, J. Phys. B <b>3</b> , 999	26
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8. Purić, J., Djeniže, S., Labat, J., Ćirković, Lj.: 1974, Z. Physik <b>267</b> , 71	30
9. Niemax, K., Pichler, G.: 1975, J. Phys. B <b>8</b> , 179	34
10. Platiša, M., Popović, M., Dimitrijević, M., Konjević, N.: 1975, Z. Naturforsch. A <b>30</b> , 212	27
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12. Popović, M.V., Platiša, M., Konjević, N.: 1975, Astron. Astrophys. <b>41</b> , 463	36
13. Konjević, N., Roberts, J.R.: 1976, J. Phys. Chem. Ref. Data <b>5</b> , 209	91
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19. Dimitrijević, M.S., Konjević, N.: 1980, JQSRT <b>24</b> , 451	30
20. Purić, J., Lakićević, I., Glavonjić, V.: 1980, Phys. Lett. <b>76A</b> , 128	34
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24. Konjević, N., Dimitrijević, M.S.: 1981, in Spectral Line Shapes, ed. B. Wende, W. de Gruyter, Berlin, New York	20
25. Wiese, W.L., Konjević, N.: 1982, JQSRT <b>28</b> , 185	22

#### 4.2. Yugoslav research workers – Jugoslovenski istraživači

Name Ime	First paper Prvi članak	Last paper Zadnji članak	No. of papers Br. članaka
Acinger, K.	1970	1972	3
Beuc, R.	1980	1985	13
Bojović, V.	1971	1971	1
Bosanac, S.	1983	1984	2
Cekić, M.	1982	1985	3
Čelebonović, V.	1982	1982	1
Čerić, V.	1974	1974	2
Čirković, Lj.	1968	1985	31
Ćuk, M.	1980	1985	15
Dimitrijević, M.S.	1974	1985	92
Djeniže, S.	1973	1977	11
Đurović, S.	1975	1979	2
Džimberg, V.	1981	1981	1
Glavonjić, V.	1978	1981	6
Grubor, D.	1973	1981	3
Grujić, P.	1970	1979	11
Hadžiomerspahić, D.	1972	1973	3
Istrefi, L.	1981	1982	3
Kajzer, M.	1978	1978	1
Knežević, V.	1978	1978	1
Kobilarov, R.	1982	1983	3
Koković, M.	1975	1975	1
Koledin, D.	1979	1979	1
Konjević, N.	1969	1985	90
Konjević, R.	1985	1985	1
Kostić, B.	1977	1977	1
Kršljanin, V.	1984	1985	4
Labat, J.M.	1968	1977	26
Labat, O.	1980	1981	2
Lakićević, I.S.	1973	1985	53
Lokner, V.	1980	1983	2
Manola, S.	1982	1984	4
Marić, Z.	1976	1976	1
Marinković, M.D.	1964	1964	1
Vadla, Č.	1972	1985	17
Mejaški–Tonejc, A.	1970	1972	5
Mićunović, J.	1974	1974	1
Mihajlov, A.A.	1983	1983	1
Miler, D.	1970	1973	3
Milošević, S.	1981	1985	18
Milošević, Z.	1976	1976	1
Mitrović, V.	1970	1971	2

Movre, M.	1976	1985	30
Panić, K.	1980	1980	1
Pavlov, M.	1968	1980	5
Pichler, G.	1970	1985	62
Platiša, M.	1970	1985	31
Popović, M.M.	1973	1973	1
Popović, M.V.	1972	1979	16
Popović, S.	1975	1975	1
Purić, J.M.	1968	1985	79
Radivojević, D.	1970	1971	2
Radujkov, V.	1975	1976	2
Rathore, B.	1982	1985	11
Rukavina, J.	1980	1980	1
Ružđak, V.	1974	1981	7
Sušić, R.	1973	1973	1
Škovrlj, Lj.	1978	1978	2
Šternberg, Z.W.	1978	1978	1
Terzić, M.	1975	1980	2
Urošević, V.	1973	1973	1
Uzelac, N.I.	1985	1985	1
Veža, D.	1978	1985	24
Vince, I.	1984	1985	4
Vujičić, B.T.	1982	1985	5
Vujnović, V.	1962	1984	13
Vujović, O.	1974	1974	1
Vukičević, D.	1983	1985	3

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## Abbreviations – Skraćenice

- AIAAJ – American Institute of Aeronautics and Astronautics Journal  
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  
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 – Elektro–tehnički 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 Gosudarstvenyj Universitet  
(Kongres) MFAJ – (Kongres) Matematičara fizičara i astronoma Jugoslavije  
NBS – National Bureau of Standards  
PMF – Prirodno–matematički fakultet  
SPIG – Symposium on the Physics of the Ionized Gases  
Z. Naturforsch. – Zeitschrift für Naturforschung  
Z. Physik – Zeitschrift für Physik