UDC 014.3:535.33 ¥U ISSN 0373-3742

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

Св. 70 No. 70

МИЛАН С. ДИМИТРИЈЕВИЋ

LINE SHAPES INVESTIGATIONS IN YUGOSLAVIA AND SERBIA V (1997 – 2000)

(Bibliography and citation index)

ИСТРАЖИВАЊЕ ОБЛИКА СПЕКТРАЛНИХ ЛИНИЈА У ЈУГОСЛАВИЈИ И СРБИЈИ V (1997 – 2000)

(Библиогафија и индекс цитата)



БЕОГРАД
2001

PUBL. ASTRON. OBS. BELGRADE No. 70, 1–326 BELGRADE MAY 2001

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SUMMARY: The first part of the publication contains a review and analysis of the results of spectral line shapes investigations in Yugoslavia and Serbia for 1997-2000. In the second part, the Bibliography of the contributions of Yugoslav and Sebian scientists for 1997 - 2000 is given, together with the Citation Index for 1997 - 2000 for articles published 1962 -2000.

REZIME: U prvom delu publikacije dat je pregled i analiza istraživanja oblika spektralnih linija u Jugoslaviji i Srbiji u periodu 1997-2000 godine. U drugom delu data je bibliografija radova jugoslovenskih i srpskih istraživača za period 1997 - 2000, sa istorijatom uticaja svakog objavljenog dela na savremenu nauku, što je urađeno navođenjem izvora u kojima su objavljeni članci citirani. Ovakav indeks citata za period 1997 - 2000, dat je i za sve bibliografske jedinice iz perioda 1962 - 2000.

I. SPECTRAL LINE SHAPES INVESTIGATIONS IN YUGOSLAVIA AND SERBIA 1997-2000

Four previously published Bibliographies with Citation Index on Spectral Line Shapes Investigations in Yugoslavia, cover the period 1962 - 1997 (Dimitrijević, 1990, 1991, 1994, 1997). From March of 1997 up to the 31 December 2000, 298 articles concerning line shapes investigations have been published by Yugoslav (Serbian) authors. In Serbia defended have been defended also 3 Ph. D. and 3 M. Sc. Theses. Accordingly, since the first article on this topic (Vujnović et al., 1962) up to the 31 December 2000, 1427 (1222 by Serbian authors) bibliographic items have been published by 179 Yugoslav authors (152 from Serbia, 26 from Croatia and 1 living in France).

In the considered period various problems have been investigated and several review papers and progress reports have been published (1128, 1129, 1131, 1133, 1137, 1139, 1166, 1167, 1290-1292, 1319-1321, 1334, 1335, 1356-1358, 1380, 1381). Stark broadening of hydrogen and hydrogen-like emitter lines, has been studied in particular for H beta line. Its profile assymetry (1347, 1407-1410), shifts of central parts (1194, 1270), theoretical Stark broadened profile (1379, 1385), line shape in coaxial diode discharge (1196), the influence of the fine structure to line shape in a glow discharge cathode fall region (1278), the application of line shape for electron density diagnostics in the range 10^{20}-10^{21} m^{-3} (1317) and the effect of magnetic field on its emission from a T-tube plasma (1130, 1161) have been considered. Also, a paper is devoted to the program for electron density determination from the experimental H beta line profile (1427). The influence of the fine structure to the Stark splitting of the H gamma line in an external electric field (1279), characteristic line profile parameters of hydrogen Balmer lines in such a field (1351), and the use of atomic hydrogen line shapes for the excited hydrogen atoms temperature determination in a glow discharge (1197) have been considered as well. Stark broadening of He II Paschen alpha line shapes has been considered in Refs. 1412 and 1426.

Work on the experimental determination of Stark broadening parameters of nonhydrogenic atom and ion spectral lines has been continued during the considered period: Stark broadening of following atoms and ions has been investigated: Ar I (1175, 1243, 1248-1250, 1252, 1322, 1328, 1329, 1331, 1386, 1395), Ar II (1315, 1326, 1327, 1332, 1395), Ar III (1315), Ar IV (1313), B II (1205), C II (1202, 1283, 1284, 1374, 1415, 1416), C III (1202, 1205, 1284, 1355, 1374, 1415), C IV (1308, 1374, 1413, 1415), F II (1283), F III (1355), He I (1386), Kr I (1386), Kr II (1388, 1389, 1391), Kr III (1390, 1391), N II (1174, 1202, 1204, 1205, 1244, 1246, 1247, 1283, 1284), N III (1202, 1237, 1244, 1284, 1355), N IV (1244), N V (1245), Ne I (1386), Ne II (1370, 1371, 1283), Ne III (1355), Ne IV (1387), O II (1173, 1202, 1238, 1283, 1284, 1324, 1414), O III (1202, 1205, 1284, 1355), O V (1245), O VI (1312), S IV (1376), Si I (1195, 1271). Moreover, ion broadening parameters have been determined for Ar I (1251, 1396, 1398) and C I (1332, 1397, 1398). Also, the influence of ion dynamics (1171), temperature dependence (1160, 1161, 1325), departure from LS coupling (1203) and Li-, Be-, B- and C-isoelectronic sequences (1282, 1285, 1289, 1353, 1354) have been investigated, as well as the use of relative intensities of forbidden and allowed components of He I lines for electric field measurements (1169, 1172, 1242) and the use of non hydrogenic spectral

line shapes for the electron density diagnostics of inductively coupled plasmas (1167, 1168), fitting procedures for recovering the profile of spectral lines (1384) and deconvolution procedure (1253, 1254, 1333, 1378)

Using the semiclassical perturbation approach (Sahal-Bréchot, 1969a,b), the spectra of the following elements have been investigated: Zn I (1298, 1300, 1302), Ca I (1293, 1299, 1304, 1362), Au I (1341, 1342), Sr I (1156), Mg II (1218), Tl III (1224, 1229, 1304), In III (1229, 1304), Y III (1143, 1144, 1150, 1233), Ne IV (1387), Pb IV (1224, 1229, 1304), P IV (1152, 1157), V V (1145, 1148, 1209), S V (1142, 1146, 1208), F VI (1226, 1228, 1235), Cl VII (1226, 1228, 1235), O VII (1147, 1214, 1222), Ar VIII (1301), K VIII (1223, 1230, 1231), Kr VIII (1296, 1297), K IX (1230, 1231, 1234), Ca IX (1155, 1216), Ca X (1151, 1155, 1216), Na X (1212, 1215, 1221), Sc X (1210, 1213, 1220), Mg XI (1211, 1214, 1222), Si XI (1153, 1154, 1217), Ti XI (1213, 1219, 1220, 1225), Sc XI (1220, 1227), Ti XII (1213, 1219, 1220, 1232), Si XIII (1149, 1154, 1217) and V XIII (1148, 1209).

When it is not possible to use the semiclassical perturbation approach with the appropriate accuracy due to the lack of reliable atomic data, the modified semiempirical method (Dimitrijević and Konjević, 1980) has been used. This method has been reviewed in Refs. (1182, 1359) and applied to the lines of Ag II (1424), Au II (1265, 1341, 1342, 1422, 1423), Bi III (1141, 1207), Co II (1350, 1422, 1423), Co III (1423), Cu III (1181, 1189), Eu II (1339, 1340, 1256, 1260), Eu III (1339, 1340), Ga III (1183, 1188), 1259), Kr II (1258, 1388, 1389, 1391, 1402), Kr III (1390, 1391), La II, La III (1185, 1187, 1339, 1340), Mn II (1180, 1188, 1259), Na II (1186), Nd II (1411), Pd II (1421), Ra II (1349), Sc II (1179), Sn II (1383), Sr III (1184, 1257), Ti II (1275), 1422, 1423), Ti III (1276), Tl II (1392), V II (1261, 1262, 1401), V III (1262, 1401), V IV (1262, 1401), Xe II, Y II (1179), Zr II (1179, 1404) and Zr III (1333, 1404).

A special attention has been paid in a number of papers to the investigation of regularities and systematic trends of Stark broadening parameters (1158, 1159, 1191. 1193, 1236, 1239, 1240, 1268, 1269, 1272, 1273, 1308-1312, 1315, 1345, 1346, 1366, 1368, 1369, 1387, 1406, 1419). Similarities of Stark broadening parameters within supermultiplet (1158, 1159, 1236) have been investigated as well as Stark parameters dependence on the emitter rest core charge (seeing by optical electron) within a transition array (1419), ion off-resonances (1191) and isoelectronic sequences (1269, 1345), Stark width regularities along the argon isonuclear sequence (1240) and within Ar II spectrum (1272, 1273). By using regularities and systematic trends, Stark broadening parameters of a number of ion lines have been predicted (1193, 1239, 1308, 1312, 1367-1369).

Astronomical aspects of spectral line shapes were studied in a number of publications, as Balmer emission in Solar and AGN coronas (1200, 1201, 1418), white dwarfs (1165) and stellar flares (1377), modeling of double-peaked lines in AGN, Sy I and quasar spectra (1263, 1343, 1403, 1405), line profiles variation in Mrk 817 (1177, 1190), spectral line investigation of active galactic nuclei (1255, 1334, 1335, 1417), Lyman alpha forest and the total absorption cross-section of galaxies (1346), QSO environment and associated damped Ly alpha galaxies (1348), diffuse bands in interstellar spectra and

fullerenes (1138), contribution of interstellar matter to linewidths of Ca II lines in spectra of late type stars (1163), line profile variability of non-radially pulsating Be stars (1164), zirconium conflict in abundance determination (1337, 1361, 1404), Stark broadening mechanism in stellar atmospheres (1264, 1394), the chromospheric behaviour of photospheric Mn I 539.47 nm spectral lines (1133), spectroscopic investigations during Solar eclipses (1352), the influence of Belgrade Solar Spectrograph's apparatus function on line profiles (1199) and solution of the non LTE transfer problem using the method of iteration factors (1132). The work on the formation of a Data Base BELDATA for the Stark broadening parameters and galaxies with Active Galactic Nuclei (AGN) spectra is also underway (1338, 1359, 1393).

ISTRAŽIVANJA OBLIKA SPEKTRALNIH LINIJA U JUGOSLAVIJI I SRBIJI 1997 - 2000

Četiri prethodno objavljene Bibliografije sa indeksom citata o istraživanjima oblika spektralnih linija u Jugoslaviji, pokrivaju period 1962 - 1997. (Dimitrijević, 1990, 1991, 1994, 1997). U periodu od marta 1997. do 31. decembra 2000. godine, objavljeno je 298 članaka koji se odnose na istraživanje oblika linija jugoslovenskih (srpskih) autora. U Srbiji su takodje odbranjene i 3 doktorske i 3 magistarske teze. Shodno tome, od prvog članka u ovoj oblasti (Vujnović i dr., 1962) pa do 31. decembra 2000, objavljeno je 1427 (1222 od strane srpskih autora) bibliografskih jedinica od ukupno 179 (152 iz Srbije, 26 iz Hrvatske i 1 makedonac koji živi u Francuskoj) jugoslovenskih autora.

U razmatranom periodu istraživani su različiti problemi i objavljeno je više preglednih članaka (1128, 1129, 1131, 1133, 1137, 1139, 1166, 1167, 1290-1292, 1319-1321, 1334, 1335, 1356-1358, 1380, 1381). Štarkovo širenje linija vodonika i vodoniku sličnih emitera, posebno je proučavano u slučaju H beta linije. Razmatrani su asimetrija njenog profila (1347, 1407-1410), pomak centralnih delova (1194, 1270), teorijski Štarkovski prošireni profil (1379, 1385), njen oblik u pražnjenjima sa koaksijalnom diodom (1196), uticaj fine strukture na njen oblik u oblasti katodnog pada kod tinjavog pražnjenja (1278), primena njenog oblika za dijagnostiku elektronske gustine u oblasti 10^{20}-10^{21} m^{-3} (1317) i efekat magnetnog polja na njenu emisiju iz plazme T-cevi (1130, 1161). Osim toga, jedan članak je posvećen programu za odredjivanje elektronske gustine iz eksperimentalnog profila H beta linije (1427). Takodje su razmatrani uticaj fine strukture na Štarkovo cepanje H gama linije u spoljašnjem električnom polju (1279), karakteristični parametri profila vodonikovih Balmerovih linija u takvom polju (1351) i upotreba oblika linija atomskog vodonika za odredjivanje temperature pobudjenih atoma vodonika u tinjavom pražnjenju (1197). Štarkovo širenje He II Pašen alfa linije bilo je razmatrano u Refs. 1412 i 1426.

Rad na eksperimentalnom odredjivanju parametara Štarkovog širenja linija nevodoničnih emitera nastavljen je u razmatranom periodu. Bilo je istraživano Štarkovo

širenje sledećih atoma i jona: Ar I (1175, 1243, 1248-1250, 1252, 1322, 1328, 1329, 1331, 1386, 1395), Ar II (1315, 1326, 1327, 1332, 1395), Ar III (1315), Ar IV (1313), B II (1205), C II (1202, 1283, 1284, 1374, 1415, 1416), C III (1202, 1205, 1284, 1355, 1374, 1415), C IV (1308, 1374, 1413, 1415), F II (1283), F III (1355), He I (1386), Kr I (1386), Kr II (1388, 1389, 1391), Kr III (1390, 1391), N II (1174, 1202, 1204, 1205, 1244, 1246, 1247, 1283, 1284), N III (1202, 1237, 1244, 1284, 1355), N IV (1244), N V (1245), Ne I (1386), Ne II (1370, 1371, 1283), Ne III (1355), Ne IV (1387), O II (1173, 1202, 1238, 1283, 1284, 1324, 1414), O III (1202, 1205, 1284, 1355), O V (1245), O VI (1312), S IV (1376), Si I (1195, 1271). Osim toga, bili su odredjeni parametri jonskog širenja za Ar I (1251, 1396, 1398) i C I (1332, 1397, 1398). Takodje su bili istraživani i uticaj dinamike jona (1171), temperaturska zavisnost (1160, 1161, 1325), odstupanje od LS veze (1203) i Li-, Be-, B- i C-izoelektronski nizovi (1282, 1285, 1289, 1353, 1354), kao i upotreba relativnh intenziteta zabranjenih i dozvoljenih komponenti linija He I za merenja električnih polja (1169, 1172, 1242) i upotreba profila nevodoničnih linija za dijagnostiku elektronske gustine induktivno spregnute plazme (1167, 1168), fitting procedures for recovering the profile of spectral lines (1384) and deconvolution procedure (1253, 1254, 1333, 1378)

Koristeći semiklasični perturbacioni prilaz (Sahal-Bréchot, 1969a,b), istraživani su spektri sledećih elemenata: Zn I (1298, 1300, 1302), Ca I (1293, 1299, 1304, 1362), Au I (1341, 1342), Sr I (1156), Mg II (1218), Tl III (1224, 1229, 1304), In III (1229, 1304), Y III (1143, 1144, 1150, 1233), Pb IV (1224, 1229, 1304), P IV (1152, 1157), V V (1145, 1148, 1209), S V (1142, 1146, 1208), F VI (1226, 1228, 1235), Cl VII (1226, 1228, 1235), O VII (1147, 1214, 1222), Ar VIII (1301), K VIII (1223, 1230, 1231), Kr VIII (1296, 1297), K IX (1230, 1231, 1234), Ca IX (1155, 1216), Ca X (1151, 1155, 1216), Na X (1212, 1215, 1221), Sc X (1210, 1213, 1220), Mg XI (1211, 1214, 1222), Si XI (1153, 1154, 1217), Ti XI (1213, 1219, 1220, 1225), Sc XI (1220, 1227), Ti XII (1213, 1219, 1220, 1232), Si XIII (1149, 1154, 1217) i V XIII (1148, 1209).

Kada nije moguće upotrebiti semiklasičan perturbacioni prilaz sa odgovarjućom tačnošću, pošto nemamo pouzdane atomske podatke, korišćen je modifikovani semiempirijski metod (Dimitrijević i Konjević, 1980) koji je prikazan u preglednim radovima 1182 i 1359. Modifikovani semiempirijski prilaz primenjen je na linije Ag II (1424), Au II (1265, 1341, 1342, 1422, 1423), Bi III (1141, 1207), Co II (1350, 1422, 1423), Co III (1423), Cu III (1181, 1189), Eu II (1339, 1340, 1256, 1260), Eu III (1339, 1340), Ga III (1183, 1188), 1259), Kr II (1258, 1388, 1389, 1391, 1402), Kr III (1390, 1391), La II, La III (1185, 1187, 1339, 1340), Mn II (1180, 1188, 1259), Na II (1186), Nd II (1411), Pd II (1421), Ra II (1349), Sc II (1179), Sn II (1383), Sr III (1184, 1257), Ti II (1275), 1422, 1423), Ti III (1276), Tl II (1392), V II (1261, 1262, 1401), V III (1262, 1401), V IV (1262, 1401), Xe II, Y II (1179), Zr II (1179, 1404) i Zr III (1333, 1404).

U brojnim radovima su istraživane regularnosti i sistematski trendovi parametara Štarkovog širenja (1158, 1159, 1191. 1193, 1236, 1239, 1240, 1268, 1269, 1272, 1273, 1308-1312, 1315, 1345, 1346, 1366, 1368, 1369, 1387, 1406, 1419). Istraživane

su sličnosti parametara Štarkovog širenja u okviru supermultipleta (1158, 1159, 1236), kao i zavisnost parametara Štarkovog širenja u snopu prelaza od ostatka naelektrisanja emitera koje "vidi" optički elektron (1419), kod "off-resonance" jonskih linija (1191) i izoelektronskih nizova (1269, 1345), regularnosti Štarkovih širina duž argonovog izonuklearnog niza (1240) i u okviru Ar II spektra (1272, 1273). Koristeći regularnosti i sistematske trendove procenjeni su parametri Štarkovog širenja niza jonskih linija (1193, 1239, 1308, 1312, 1367-1369).

Astronomski aspekti istraživanja spektralnih linija proučavani su u brojnim prilozima. Istraživani su: Balmerova emisija u koronama Sunca i AGN (1200, 1201, 1418), belim patuljcima (1165) i zvezdanim flerovima (1377), modeliranje linija sa dva pika u spektrima AGN, Sy I i kvazara (1263, 1343, 1403, 1405), varijacije profila linija u Mrk 817 (1177, 1190), spectralne linije u jezgrima aktivnih galaksija (1255, 1334, 1335, 1417), Lajman alfa šuma i totalni apsorpcioni presek galaksija (1346), okolina QSO i asocirane galaksije sa prigušenom Ly alfa (1348), difuzne trake u medjuzvezdanim spektrima i fulereni (1138), doprinos medjuzvezdane materije širinama Ca II linija u spektrima zvezda kasnog tipa (1163), promenljivost profila linija kod neradijalno pulsirajućih Be zvezda (1164), cirkonijum konflikt kod odredjivanja obilnosti (1337, 1361, 1404), mehanizam Štarkovog širenja u zvezdanim atmosferama (1264, 1394), hromosfersko ponašanje Mn I 539.47 nm spektralne linije (1133), spektroskopska merenja za vreme pomračenja Sunca (1352), uticaj instrumentalne funkcije Beogradskog sunčevog spektrografa na profile linija (1199) i rešavanje neravnotežnog (ne LTE) prenosa zračenja metodom iteracionih faktora (1132). Rad na formiranju baze podataka BELDATA za parametre Štarkovog širenja spektralnih linija i spektre galaksija sa aktivnim jezgrima (AGN), takodje je u toku (1338, 1359, 1393).

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II. BIBLIOGRAPHY AND CITATION INDEX
BIBLIOGRAFIJA I INDEKS CÍTATA

INTRODUCTION

The Bibliography with the Citation Index is divided into five parts. In the first four parts are given the Citation Index of articles from 1962-1985, 1985-1989, 1989 - 1993 and 1993-1997 period respectively, given in Dimitrijević (1990, 1991, 1994, 1997), with the same numbering. Moreover, the number in brackets after the article's number, if any, denotes that at least one author is from Serbia. In such a way the corresponding Bibliography for Serbia is included too. In the fifth part is the Bibliography of articles for March of 1997 - 31 December 2000 period and the bibliographical items not included in Dimitrijević (1990, 1991, 1994, 1997) and the corresponding Citation Index. 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 brief data are given.

UVOD

Bibliografija sa indeksom citata podeljena je u pet delova. U prva četiri dela dat je indeks citata članaka iz perioda 1962-1985, 1985-1989, 1989-1993 i 1993-1997 respektivno, koji su ušli u prethodne preglede (Dimitrijević, 1990, 1991, 1994, 1997), sa istom numeracijom. Osim toga, broj u zagradi iza rednog broja članka ako postoji, označava da je najmanje jedan autor iz Srbije. Na taj način prisutna je i odgovarajuća bibliografija za Srbiju. U petom delu je bibiliografija članaka za period od marta 1997 do 31 decembra 2000 i bibliografske jedinice koje nisu uključene u prethodne preglede (Dimitrijević (1990, 1991, 1994, 1997) i odgovarajući indeks citata. 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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II.1. CITATION INDEX OF ARTICLES FROM 1962-1985 PERIOD

INDEKS CITATA ČLANAKA IZ PERIODA 1962-1985

1962

1. Vujnović, V., Harrison, J. A., Craggs, J. D.: 1962, *Balmer Line Profiles in a Capillary Arc Discharge*, Proc. Phys. Soc. London **80**, 516.

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III. APPENDIX - PRILOG

III. 1. Articles with 25 or more citations

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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	1998	8
Atanacković-Vukmanović, O.:	1985	1996	28
Azinović, D.:	1989	1990	2
Beuc, R.:	1980	1989	23
Bajin, I.:	1993	1993	1
Bajović, S. V.:	1993	1993	1
Banjac, O.:	1995	1995	1
Blagojević, B.:	1994	2000	27
Bojović, V.:	1971	1971	1
Bon, E.:	1998	2000	7
Bosanac, S.:	1982	1987	4
Božin, J.:	1992	1992	1
Brnović, M. J.:	1992	1992	2
Bukvić, S.:	1992	2000	20
Bzenić, S.:	1990	1992	3
Cekić, M.:	1983	1984	4
Čelebonović, V.:	1982	1996	2
Čerić, V.:	1974	1974	2
Ćirković, M. M.:	1997	1999	6
Ćirković, Lj.:	1968	1987	38
Ćuk, M.:	1980	1997	38
Cupać, S.:	1991	1991	1
Cvetković, Z.:	1999	1999	1
Dačić, M.:	1999	1999	1
Dimitrijević, M. S.:	1974	2000	512
Djeniže, S.:	1973	2000	128
Djurašević, G.:	1995	1998	3
Djurić, Z.:	1988	1994	5
Djurović, S.:	1975	2000	78
Dojčinović, I. P.:	2000	2000	1
Drinčić, V.:	2000	2000	5

Name Ime	First paper Prvi članak	Last paper Zadnji članak	No. of papers Br. članaka
Džimberg-Malčić, V.:	1981	1990	3
Erkapić, S.:	1989	1997	14
Fijan, D.:	1987	1989	8
Francuski, T.:	1989	1989	1
Gemišić, M. V.:	2000	2000	1
Georgijević, J.:	1997	1997	1
Glavonjić, V.:	1978	1981	6
Gnjatović, S.:	1991	1991	1
Grubor, D. P.:	1973	1981	3
Grujić, P.:	1970	1996	14
Hadžiomerspahić, D.:	1972	1973	3
Henč-Bartolić, V.:	1988	1990	2
Istrefi, L.:	1981	1991	6
Ignjatović, Lj. M.:	1997	1999	2
Ivković, M.:	1993	2000	12
Jankov, S.:	1985	1997	8
Jelenković, B.:	1990	1992	4
Jelisavčić, M.:	2000	2000	1
Jevremović, D.:	1993	2000	12
Jovičić, Z.:	1991	1991	1
Kajzer, M.:	1978	1978	1
Kantar, B.:	2000	2000	1
Karabin, M.:	1987	1992	3
Kirćan, M.:	2000	2000	1
Kljajić, S.:	1989	1989	1
Knežević, V.:	1978	1978	1
Kobilarov, R.:	1982	2000	75
Koković, M.:	1975	1975	1
Koledin, D.:	1979	1979	1
Konjević, N.:	1969	2000	230
Konjević, R.:	1985	2000	20
Kostić, B.:	1977	1977	1
Kovačević, A.:	1996	1996	1
Kršljanin, V.:	1984	1993	45
			313

Name Ime	First paper Prvi članak	Last paper Zadnji članak	No. of papers Br. članaka
Krstić, S.:	2000	2000	1
Kubičela, A.:	1986	2000	26
Kuraica, M.:	1990	2000	15
Labat, J. M.:	1968	1999	77
Labat, O.:	1980	1991	10
Lakićević, I. S.:	1973	1985	57
Logožar, R.:	1988	1988	2
Lokner, V.:	1980	1983	2
Maksimović, R.:	2000	2000	1
Malešević, M. M.:	1988	1988	1
Malešević, Z.:	1989	1989	1
Manola, S.:	1982	1989	6
Marić, Z.:	1976	1976	1
Marinković, M.:	1991	1991	1
Marinković, M. D.:	1964	1964	1
Marković-Kršljanin, S.:	1990	1991	2
Mendaš, I.:	1993	1993	1
Mićunović, J.:	1974	1974	1
Mihajlov, A. A.:	1983	1999	13
Mijatović, Z.:	1987	2000	70
Mijović, S.:	1986	2000	4
Miler, D.:	1970	1973	3
Miljatović, M.:	2000	2000	1
Miljević, V.:	1995	2000	5
Milovanović, N. D.:	1999	2000	8
Milosavljević, M.:	1987	1996	7
Milosavljević, V.:	1994	2000	22
Milošević, S.:	1981	1990	32
Milošević, Z.:	1976	1976	1
Mišković, A.:	1994	1994	1
Mišković, D.:	1999	1999	4
Mitrović, V.:	1970	1971	2
Milovanov T.:	1995	1995	1
Modrič, D.:	1986	1990	8

Name Ime	First paper Prvi članak	Last paper Zadnji članak	No. of papers Br. članaka
Movre, M.:	1976	1990	44
Nikolić, B.:	1991	1995	2
Nikolić, D.:	1993	2000	26
Nikolić, S.:	1997	1997	1
Obradović, B. M.:	1997	2000	3
Palle, M.:	1986	1986	1
Panić, K.:	1980	1980	1
Panić, Z.:	1991	1991	1
Pantelić, D.:	1989	1989	1
Pavlov, M.:	1968	1998	34
Pavlović, R.:	1998	2000	2
Paunović, D. R.:	1990	1990	1
Pavlović, M. S.:	1991	1991	1
Pavlović, N. Z.:	1991	1991	1
Petrović, Z. Lj.:	1990	1992	3
Pichler, G.:	1970	1991	113
Pivalica, S.:	1991	1993	3
Platiša, M.:	1970	2000	71
Popović, L. Č.:	1991	2000	115
Popović, M. M.:	1973	1992	11
Popović, M. V.:	1972	2000	45
Popović, M.:	1998	1998	1
Popović, S.:	1975	1975	1
Pružljanin, G.:	1993	1993	1
Purić, J. M.:	1968	2000	146
Racković, I.:	1990	1990	1
Radivojević, D.:	1970	1971	2
Radovanov, S.:	1990	1995	3
Radujkov, V.:	1975	1986	4
Rathore, B.:	1982	1987	16
Rukavina, J.:	1980	1980	1
Ruždjak, V.:	1974	1987	8
Samurović, S.:	1997	2000	3
Savić, I.:	1995	2000	13
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Name Ime	First paper Prvi članak	Last paper Zadnji članak	No. of papers Br. članaka
Šćepanović, M.:	1994	2000	11
Simić, S.:	2000	2000	1
Šišović, N.:	1995	2000	6
Škovrlj, Lj. .	1978	1991	3
Skuljan, J.:	1990	1998	7
Skuljan, Lj.:	1993	1995	9
Sotirovski, P.:	1987	1992	2
Spasojević, Dj.:	1994	1994	1
Srećković, A.:	1986	2000	83
Stanić, I.:	1998	1998	1
Stanić (Trajković) , N.:	1998	2000	8
Stanković, D.:	1990	1990	1
Stanković, N.:	1991	1991	1
Stefanović, I. M.:	1990	1995	8
Stevanov, M.:	1996	1997	3
Šternberg, Z. W.:	1978	1978	1
Stojanović, V.:	1992	1992	1
Stokić, Z.:	1992	1992	1
Sušić, R.:	1973	1973	1
Tankosić, D.:	1997	2000	15
Terzić, M.:	1975	1987	5
Urošević, V.:	1973	1973	1
Todorović-Vasović, K. N.:	1991	1995	4
Tonejc, A.:	1970	1972	5
Trajković, N.:	1999	1999	1
Trajković, N. (see Stanić, N.)			
Uzelac, N. I.:	1985	1995	18
Vadla, Č.:	1972	1986	19
Velikić, Z. B.:	1991	1991	1
Veža, D.:	1978	1990	49
Videnović, I.:	1995	1999	11
Vince, I.:	1983	2000	57
Vince, O.:	1997	2000	2
Vrhovac, S.:	1991	1992	2

Name Ime	First paper Prvi članak	Last paper Zadnji članak	No. of papers Br. članaka
Vuceljić, M.:	2000	2000	1
Vučković, M.:	1998	1998	1
Vujičić, B. T.:	1982	2000	36
Vujković-Cvijin, P.:	1993	1993	1
Vujnović, V.:	1962	1991	19
Vujović, O.:	1974	1974	1
Vukičević, D.:	1983	1985	3
Žikiš, R.:	2000	2000	1
Živkov, V.:	1998	1998	1
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III. 4. Abreviations - Skraćenice

AIAAJ - American Institute of Aeronautics and Astronautics Journal
AIP - American institute of Physics
Ann. Phys. Suppl. - Annales de Physique Supplement
CCP/7 - Collaborative Computational Project No 7
CDS - Centre des Donees Stelaires
CP stars - Chemically peculiar stars
C. R. H. Acad. Sci. - Comptes Rendus Hebdomadaires de l'Academie des Sciences
DIAM - Dynamique des Ions, Atomes et Molecules
ECAMP - European Conference on Atomic and Molecular Physics
ECAP - European Conference on Atomic Physics
ECR - Electron Cyclotron Resonance
EGAS - European Group for Atomic Spectroscopy
ERAM - European Regional Astronomy Meeting
ERMA - European Regional Meeting on Astronomy
ESCAMPIG - European Study Conference on Atomic and Molecular Physics of Ionized Gases
ETF - Elektrotehnički fakultet
IAGA - International Association for Geomagnetism and Aeronomy
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 Quantitiative Spectroscopy and Radiative Transfer
J. Res. Phys. - Journal of research in Physics
LGU - Leningradskij Gosudarstvenij Universitet
(Kongres) MFAJ - (Kongres) Matematičara fizičara i astronoma Jugoslavije
NBS - National Bureau of Standards
NIST - National Institute of Standards and Technology
PMF - Prirodno-matematički fakultet
Serb. Astron. J. - Serbian Astronomical Journal
Sing. J. Phys. - Singaporean Journal of Physics
SPIG - Symposium on the Physics of the Ionized Gases

Z. Naturforsch. - Zeitschrift f•r Naturforschung
Z. Physik - Zeitschrift f•r Physik