



UNDER AUSPICES

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BY



THE CONFERENCE PROGRAMME

ACRONYM LEGEND:	IL	INVITED LECTURE	30 min (including discussion)
	CT	CONTRIBUTED TALK	15 min (including discussion)
	PhD	PhD THESIS PRESENTATION	15 min (including discussion)
	MSc	MSc THESIS PRESENTATION	10 min (including discussion)

TUESDAY, September 23

TIME		
08:30	10:00	Registration
10:00	11:00	Opening ceremony
11:00	12:00	Cocktail

INVITED REVIEWS CHAIR: S. NINKOVIĆ

TIME		SPEAKERS	TITLE
12:00	12:40	T. Bell	PARTICLE ACCELERATION BY SHOCKS
12:40	13:20	J. Vondrak	GEOPHYSICAL FLUIDS, GEOMAGNETIC JERKS, AND THEIR IMPACT ON EARTH ORIENTATION

13:20 15:30

LUNCH BREAK

SESSION I SPECTROSCOPY OF ASTROPHYSICAL PLASMAS CHAIR: M. TSVETKOV

TIME		SPEAKERS	TITLE	TYPE
15:30	16:00	M. S. Dimitrijević	STARK BROADENING IN ASTROPHYSICS	IL
16:00	16:15	Z. Simić	SPECTRAL LINES OF Zr IV IN THE ATMOSPHERE OF CHEMICALLY PECULIAR STARS	CT
16:15	16:30	I. Milić and O. Atanacković	SWEEP-BY-SWEEP IMPLICIT LAMBDA ITERATION FOR NON-LTE RADIATIVE TRANSFER IN 2D CARTESIAN COORDINATES	CT
16:30	16:45	O. Kuzmanovska and O. Atanacković	CONVERGENCE PROPERTIES OF THE FBILI METHOD FOR MULTI-LEVEL LINE TRANSFER	CT
16:45	16:55	I. Pirković	THE APPLICATION OF THE FBILI METHOD TO THE SOLUTION OF RADIATIVE TRANSFER PROBLEMS IN MOVING MEDIA	MSc
16:55	17:05	S. Tomić	LINE PROFILE VARIABILITY IN GALACTIC B SUPERGIANTS	MSc
17:05	17:20	J. Petrović et al.	GALACTIC CENTER GAMMA-RAY "EXCESS" FROM AN ACTIVE PAST OF GALACTIC CENTER?	CT

17:20 17:45

COFFEE BREAK

SESSION POSTERS

17:45	19:00	
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WEDNESDAY, September 24

INVITED REVIEWS
CHAIR: L. Č. POPOVIĆ

TIME		SPEAKERS	TITLE
09:00	09:40	M. Baes	OBSERVING AND MODELING THE DUST IN NEARBY GALAXIES
09:40	10:20	S. Capozziello	DARK ENERGY AND DARK MATTER AS CURVATURE EFFECTS

10:20	10:35	COFFEE BREAK
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SESSION II
**PHYSICS OF STARS, INTERSTELLAR MATTER,
 STELLAR AND GALACTIC SYSTEMS**
CHAIR: S. JANKOV

TIME		SPEAKERS	TITLE	TYPE
10:35	11:05	P. Jovanović	CENTRAL SUPERMASSIVE BLACK HOLE OF THE MILKY WAY	IL
11:05	11:20	I. Vince	AN ANALYSIS OF UU CAS RADIAL VELOCITY CURVES	CT
11:20	11:35	B. Kubatova	CHALLENGES IN MASS-LOSS DETERMINATION FOR MASSIVE HOT STARS	CT
11:35	11:50	D. Borka et al	CONSTRAINTS ON F(R, PHI) (SANDERS-LIKE) GRAVITY POTENTIAL FROM ORBIT OF S2 STAR	CT
11:50	12:05	S. Vidojević	STATISTICS OF LANGMUIR WAVES ASSOCIATED WITH TYPE III SOLAR RADIO BURSTS	PhD

12:05	12:20	COFFEE BREAK
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SESSION II
**PHYSICS OF STARS, INTERSTELLAR MATTER,
 STELLAR AND GALACTIC SYSTEMS**
CHAIR: V. ČADEŽ

TIME		SPEAKERS	TITLE	TYPE
12:20	12:50	M. Filipović	SUPERNOVA REMNANTS IN MAGELLANIC CLOUDS	IL
12:50	13:20	D. Urošević	ON THE DIFFERENT FORMS OF CONTINUUM RADIO SPECTRA OF SUPERNOVA REMNANTS: THEORETICAL FUNDAMENTALS	IL
13:20	13:35	M. Pavlović et al.	UPDATED RADIO SURFACE-BRIGHTNESS-TO-DIAMETER RELATION FOR GALACTIC SUPERNOVA REMNANTS	CT
13:35	13:50	V. Borka-Jovanović and D. Borka	DISTRIBUTION OF RADIO SPECTRAL INDEX OVER THE LUPUS LOOP	CT

13:50	15:20	LUNCH BREAK
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		SESSION IV ASTROMETRY, DYNAMICAL ASTRONOMY AND PLANETOLOGY CHAIR: J. VONDRAK		
TIME		SPEAKERS	TITLE	TYPE
15:20	15:50	M. Guzzo	LOCALIZATION OF STABLE-UNSTABLE MANIFOLDS WITH FAST LYAPUNOV INDICATORS AND APPLICATIONS TO THE THREE BODY PROBLEM	IL
15:50	16:05	B. Jovanović and S. Šegan	ON DECOUPLING CIVIL TIMEKEEPING FROM EARTH ROTATION	CT
16:05	16:20	B. Jovanović	DETERMINATION OF THE DIFFERENCE BETWEEN DYNAMICAL TIME AND UNIVERSAL TIME AND PREDICTIONS OF VARIATIONS IN THE EARTH'S ROTATION	PhD
16:20	16:35	Z. Knežević	ASTEROID FAMILY CLASSIFICATION: PRESENT AND FUTURE	CT
16:35	16:50	I. Milić-Žitnik and B. Novaković	ON THE INNER BORDER OF PHOCAEA GROUP OF ASTEROIDS	CT
16:50	17:05	B. Basarin et al.	TIME-SCALE AND ASTRONOMICAL FORCING OF SERBIAN LOESS-PALAEOSOL SEQUENCES	CT

17:05	17:30	COFFEE BREAK		
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		SESSION IV ASTROMETRY, DYNAMICAL ASTRONOMY AND PLANETOLOGY CHAIR: B. NOVAKOVIĆ		
TIME		SPEAKERS	TITLE	TYPE
17:30	18:00	V. Čelebonović	CONDENSED MATTER PHYSICS AND IMPACT CRATER FORMATION	IL
18:00	18:15	R. Pavlović et al.	MEASUREMENTS OF VISUAL DOUBLE STARS BETWEEN 2011-2014	CT
18:15	18:30	N. Todorović	ASTEROID BELT AND THE FAST LYAPUNOV INDICATOR	CT
18:30	18:45	S. Ignjatović	A STRUCTURAL RELATION BETWEEN PLANETARY DISTANCES AND ITS CONNECTION WITH PLANETARY DISTANCE LAWS	CT
18:45	19:00	D. Stoilković	CALCULATION OF MEAN DENSITY OF SOLAR PLANETS BY MODIFIED SAVICH-KASHANIN METHOD	CT
19:00	19:10	V. Radović	RELATIVE-COORDINATE DETERMINATION FOR VISUAL DOUBLE STARS BY APPLYING FOURIER TRANSFORMS	MSc

THURSDAY, September 25

INVITED REVIEWS
CHAIR: O. ATANACKOVIĆ

TIME		SPEAKERS	TITLE
09:00	09:40	M. Faurobert	QUIET SUN MAGNETIC FIELDS

SESSION V EXTRAGALACTIC ASTRONOMY AND COSMOLOGY
CHAIR: D. UROŠEVIĆ

TIME		SPEAKERS	TITLE	TYPE
09:40	10:10	T. Prodanović	LITHIUM IN SMALL MAGELLANIC CLOUD: IMPLICATIONS FOR NEW PHYSICS	IL
10:10	10:25	N. Martinović	RECOMMENDATION FOR RUNNING PURE N-BODY SIMULATIONS ON COMPUTING FACILITIES IN SERBIA	CT
10:25	10:40	J. Grujić et al.	COSMOLOGY OF NON LOCAL GRAVITY	CT
10:40	10:55	M. Jovanović et al.	MASS ESTIMATION OF THE ELLIPTICAL GALAXY NGC 5846	CT
10:55	11:10	N. Martinović et al.	HALO MASS FUNCTION: FROM CALCULATIONS TO COSMOLOGICAL SIMULATION AND BACK	CT

11:10	11:25	COFFEE BREAK
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SESSION V EXTRAGALACTIC ASTRONOMY AND COSMOLOGY
CHAIR: M. ĆIRKOVIĆ

TIME		SPEAKERS	TITLE	TYPE
11:25	11:55	D. Ilić	EMISSION LINES AND INVESTIGATIONS OF THE CENTER OF ACTIVE GALACTIC NUCLEI	IL
11:55	12:10	M. Mičić	AGN PHASE: MATCHING NUMERICAL SIMULATIONS TO OBSERVATIONS	CT
12:10	12:25	A. Obuljen et al.	FORMATION OF ULTRA-COMPACT DWARF GALAXIES	CT
12:25	12:40	Ž. Mijajlović and N. Pejović	ON A HIDDEN PARAMETER IN FRIEDMANN EQUATIONS	CT
12:40	12:55	M. Pović	MORPHOLOGICAL CLASSIFICATION OF GALAXIES (IN GENERAL), AND CLASSIFICATION IN THE ALHAMBRA SURVEY (IN PARTICULAR)	CT
12:55	13:10	A. Vudragović et al.	IMPLICATIONS OF THE KINEMATICS ON THE CHEMICAL AND DYNAMICAL PROPERTIES OF NEARBY ELLIPTICAL GALAXIES	CT

13:10	14:30	LUNCH BREAK
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**SESSION V EXTRAGALACTIC ASTRONOMY AND COSMOLOGY
CHAIR: P. JOVANOVIĆ**

TIME		SPEAKERS	TITLE	TYPE
14:30	14:45	M. Pović	STAR FORMATION IN THE MOST LUMINOUS LOCAL LINERS	CT
14:45	15:00	M. Smailagić	AN ATTEMPT TO EXPLAIN THE EVOLUTION OF LYMAN-ALPHA BLOBS NUMBER DENSITY AT Z~1-6	CT
15:00	15:15	M. Smole et al.	MODELING OF SUPERMASSIVE BLACK HOLE GROWTH AT REDSHIFT Z=7	CT
15:15	15:25	B. Šinik	APPLICATION OF FRIEDMANN EQUATIONS IN ANALYSIS OF COSMOLOGICAL CONSTANTS	MSc
15:25	15:40	M. Stalevski	THE DUSTY TORUS OF ACTIVE GALACTIC NUCLEI	CT

15:40	16:00	COFFEE BREAK
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**SESSION VI INTERDISCIPLINARY STUDIES
CHAIR D. ILIĆ**

TIME		SPEAKERS	TITLE	TYPE
16:00	16:30	M. Ćirković	SETI AND THE ARGUMENT FROM BIOLOGICAL CONTINGENCY	IL
16:30	17:00	D. Jevremović	LSST AND SERBIAN SCIENCE	IL
17:00	17:15	M. Muminović and N. Mujić	PRVI REZULTATI BOSANSKO-HERCEGOVAČKE METEORSKE MREŽE	CT
17:15	17:30	M. Ćirković and B. Vukotić	ASTROBIOLOGY AND RISK ANALYSIS: THE EXAMPLE OF SELF-SELECTION IN THE IMPACT CRATERING	CT

17:30	17:45	COFFEE BREAK
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**SESSION VI INTERDISCIPLINARY STUDIES
CHAIR MIROSLAV MIČIĆ**

TIME		SPEAKERS	TITLE	TYPE
17:45	18:15	S. Samurović	THE BELISSIMA PROJECT	IL
18:15	18:30	V. Čadež and A. Nina	ON MHD WAVE COUPLING BETWEEN TERRESTRIAL IONOSPHERE AND MAGNETOSPHERE	CT
18:30	18:45	A. Nina et al.	DETECTION OF TERRESTRIAL IONOSPHERIC PERTURBATIONS CAUSED BY DIFFERENT ASTROPHYSICAL PHENOMENA	PhD
18:45	19:00	A. Mickaelian	REGIONAL ACTIVITIES RELATED TO IAU STRATEGIC PLAN AND INTEGRATION OF THE BYURAKAN ASTROPHYSICAL OBSERVATORY IN THE EUROPEAN ASTRONOMY	CT
19:00	19:15	K. Tsvetkova et al.	SUMMARY OF THE IX BULGARIAN-SERBIAN ASTRONOMICAL CONFERENCE: ASTROINFORMATICS	CT
19:15	19:30	J. Aleksić	ALERT SIMULATOR - A SYSTEM FOR SIMULATING DETECTION OF TRANSIENT EVENTS ON LSST	CT

20:30	CONFERENCE DINNER
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FRIDAY, September 26

TIME		SPEAKERS	TITLE	TYPE
SESSION VII HISTORY, PHILOSOPHY AND TEACHING OF ASTRONOMY CHAIR N. PEJOVIĆ				
09:00	09:30	M. Božić	SHIFTS IN SCIENTIFIC PARADIGMAS, A KHUNIAN APPROACH, CASE STUDY: COPERNICUS VERSUS BRAHE	IL
09:30	10:00	M. Nagl and S. Ninković	IBSE – METOD U NASTAVI ASTRONOMIJE	IL
10:00	10:15	V.N. Manimanis et al.	COSMAS INDICOPLEUSTES	CT
10:15	10:30	O. Atanacković	ASTRONOMY EDUCATION IN SERBIA 2011-2014	CT

10:30	10:45	COFFEE BREAK		
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TIME		SPEAKERS	TITLE	TYPE
SESSION VII HISTORY, PHILOSOPHY AND TEACHING OF ASTRONOMY CHAIR S. VIDOJEVIĆ				
10:45	11:15	P. Grujić	ASTRONOMY AND MYTHOLOGY	IL
11:15	11:30	Lj. Dobrosavljević -Grujić	THE LANGUAGE OF SKY	CT
11:30	11:45	S. Šegan and J. Maričić-Mirilović	MATEMATIČKE OSNOVE SUNČANIH ČASOVNIKA I PRINCIPI MODELOVANJA	CT
11:45	12:00	D. Marčeta and S. Šegan	ASTRONOMY FOR THE STUDENTS OF INFORMATICS	CT
12:00	12:15	M. Martinović	QUASI-THERMAL NOISE SPECTROSCOPY IN EARTH'S MAGNETOSHEATH: THEORY AND APPLICATION TO PLASMA DIAGNOSTIC ON WIND SPACECRAFT	CT

13:30	EXCURSION			
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SATURDAY, September 27

**ASSEMBLY OF THE SOCIETY OF ASTRONOMERS OF SERBIA CHAIR
TBD**

TIME	
08:30	10:00

**SESSION VII HISTORY, PHILOSOPHY AND TEACHING OF
ASTRONOMY
CHAIR S. ŠEGAN**

TIME		SPEAKERS	TITLE	TYPE
10:15	10:30	J. Maričić-Mirilović and S. Vukmirović	SUNČANI ČASOVNIK KAO MULTIDISCIPLINARNA NASTAVNA TEMA U PREDŠKOLSKOJ I ŠKOLSKOJ NASTAVI	CT
10:30	10:45	N. Stanić and M. Tadić	SUNDIALS AS A COMMUNICATION TOOL	CT
10:45	11:00	N. Stanić et al.	MOBILE PLANETARIUM AS TEACHING AND COMMUNICATION TOOL	CT
11:00	11:15	M. Pović	ASTRONOMY FOR DEVELOPMENT PROGRAMME (OVERVIEW)	CT
11:15	11:30	A. S. Tomić	NEGATIVNA DUŽINA I MASA U GRAVITACIONOM SISTEMU - KOSINUSNA PITAGORINA TEOREMA	CT
11:30	11:45	V. Trajkovska and V. Protić-Benišek	ONE LETTER CONCERNING CALENDAR REFORM	CT

11:45	12:00
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COFFEE BREAK

**SESSION VIII AMATEUR ASTRONOMY, SOCIOLOGY OF
ASTRONOMY, ASTRONOMY IN ARTS AND
CULTURE
CHAIR: N. STANIĆ**

TIME		SPEAKERS	TITLE	TYPE
12:00	12:30	Z. Tomić	ACTIVITIES OF ASTRONOMICAL SOCIETY EUREKA IN PERIOD 2012 - 2014	IL
12:30	12:45	Ž. Disterlo	UTICAJ KORPUSKULARNOG ZRAČENJA SUNCA NA METEORSKI ROJ KVADRANTIDI U PERIODU 2005-2014	CT
12:45	13:00	J. Aleksić and N. Stanić	ASTRONOMICAL SOCIETY "RUĐER BOŠKOVIĆ": 80 YEARS OF THE SOCIETY, 50 YEARS OF THE PUBLIC OBSERVATORY AND 45 YEARS OF THE PLANETARIUM	CT
13:00	13:15	A. Zorkić	ZAJEDNIČKE AKTIVNOSTI	CT

13:15	14:30
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LUNCH BREAK

SESSION VIII

AMATEUR ASTRONOMY, SOCIOLOGY OF
 ASTRONOMY, ASTRONOMY IN ARTS AND
 CULTURE
 CHAIR: J. ALEKSIĆ

TIME		SPEAKERS	TITLE	TYPE
14:30	14:45	E. Tanović	AD "PLEJADE", TUZLA	CT
14:45	15:00	J. Grnja and J. Mravik	OBSERVATION EXTRA SOLAR PLANETS FROM OBSERVATORY NIGHT HAWK IN BAČKA PALANKA	CT
15:00	15:15	D. Radovanović	AD "ANTARES", SOKOBANJA	CT
15:15	15:30	S. Farmanyan	CULTURES ACROSS THE UNIVERSE	CT
15:30	15:45	B. Arbutina and D. Momić	ADICT – ENGLISH-SERBIAN ASTRONOMICAL DICTIONARY	CT
15:45	16:00	M. Milošević and Z. Tomić	SURFOVANJE INTERNETOM	CT
16:00	16:15	J. Mravik and J. Grnja	OPERATION AND SUCCESS OF ROBOTIC OBSERVATORY "NIGHT HAWK"	CT

16:15	16:30
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CLOSING OF CONFERENCE

APENDIX
LIST OF POSTERS

SESSION	ORDER	AUTHORS	TITLE
I	1	M. S. Dimitrijević et al.	ACTIVITIES OF THE GROUP FOR ASTRONOMICAL SPECTROSCOPY 2011-2014
II	1	N. Sakan	HF CHARACTERISTICS OF THE ASTROPHYSICAL PLASMAS
II	2	A. A. Mihajlov et al.	SUNSPOTS OPACITY: THE ION-ATOM ABSORPTION PROCESSES
II	3	V. A. Srečković and D. Šulić	UNUSUAL PERTURBATIONS ON VLF RADIO SIGNALS DURING SOLAR FLARES
II	4	M. Vučetić et al.	SUPERNOVA REMNANTS AND THEIR INFLUENCE ON H α DERIVED STAR FORMATION RATES
IV	1	G. Damljanović et al.	THE LINK BETWEEN FUTURE GAIA CRF AND ICRF AND THE OBSERVING FACILITIES OF THE 60 cm ASV TELESCOPE
IV	2	S. Šegan. and D. Marčeta	DIGITAL ALMANAC - ELEMENTS AND TABLES OF THE PHYSICAL AND MATHEMATICAL EPHEMERIS OF THE SOLAR SYSTEM BODIES
V	1	R. Bachev et al.	SEARCHING FOR CHAOS IN THE X-RAY LIGHT CURVES OF AGN
V	2	S. Simić and L. Č. Popović	SED OF BINARY BLACK HOLES
V	3	S. Samurović	THE IMPORTANCE OF DARK MATTER IN NEARBY MASSIVE EARLY-TYPE GALAXIES
VI	1	A. Klyuyeva	THE EFFECT OF DECREASE OF THE COSMIC RAYS INTENSITY INFLUENCED BY QUASI-STATIONARY AND SPORADIC HIGH-SPEED STREAMS OF SOLAR WIND
VI	2	D. Lukić	POSSIBLE EXOMOONS AS TARGETS FOR SETI
VI	3	A. B. Nedeljković	DESIGN OF SAFE AND COMFORTABLE UNDERGROUND LUNAR HABITAT
VI	4	V. Vujčić et al.	USE OF COMPLEX EVENT PROCESSING ENGINES IN TIME-DOMAIN ASTRONOMY
VII	1	B. Krstin	ASTRONOMY CLUB IN PRIMARY SCHOOL
VII	2	N. Jelenković	ASTRONOMY AND MEASUREMENT
VII	3	S. Ninković et al.	PARTICIPATION OF SERBIA AT THE INTERNATIONAL OLYMPIAD IN ASTRONOMY AND ASTROPHYSICS IN 2012 AND 2013
VII	4	J. Maričić-Mirilović et al.	MODELI SUNČANIH ČASOVNIKA - UČENIČKA PRAKSA
VII	5	J. Maričić-Mirilović	NEKOLIKO PRINCIPA KLASIFIKACIJE I KLASIFIKACIJA SUNČANIH ČASOVNIKA SA PREGLEDOM NAJPOZNATIJIH IZVEDBI
VIII	1	A. Janković et al.	A.A.D. "TYCHO BRAHE" BEOGRAD
VIII	2	Z. Knežević et al.	SERBIAN ASTRONOMICAL JOURNAL IN SCIENCE CITATION INDEX AND JOURNAL CITATION REPORT
VIII	3	A. Milovanović et al.	AKTIVNOSTI ASTRONOMSKE GRUPE DRUŠTVA ISTRAŽIVAČA „VLADIMIR MANDIĆ MANDA“ U PERIODU OD 2012. DO 2014. GODINE
VIII	4	F. Čolaković	OPPORTUNITIES AND DIFFERENT APPROACHES TO FUNDING OF ASTRONOMICAL RESEARCH AND OUTREACH ACTIVITIES
VIII	5	M. G. Jeremić	ASTRONOMSKO UDRUŽENJE ANDROMEDA