Programme of 14th SCSLSA

Venue: Zepter Hotel "Drina", Bajina Bašta, Serbia

The time zone is CEST

Monday, June 19, 2023

- 16:00 *Arrival* 16:00 - 17:00 *Registration*
- 17:00 17:30 *Opening ceremony Nataša Bon ,Luka Č. Popović & Sylvie Sahal Bréchot*

DATABASES AND SPECTRAL LINE SHAPES FROM LABORATORY TO SPACE PLASMA

Chair: S. Sahal-Bréchot

17:30 - 18:00	Branislav Marinković, Serbia	Collisional databases within VAMDC: Synergy with COST Action RADAM
18:00 - 18:30	Yuri Ralchenko, USA	NIST Atomic Databases: data evaluation, uncertainties, online tools
18:30 - 21:30	Welcome reception	

Tuesday, June 20, 2023

SPECTRAL LINE SHAPES AND ASTROPHYSICAL PHENOMENA

Chair: L. Č. Popović

9:30 - 10:00	Alexei Moiseev, Russia	Radio jets and ionization cones in Seyfert galaxies
10:00 - 10:30	Raj Prince, Poland	Dissecting Mg II and Fe II emission lines in intermediate redshift quasars with SALT
10:30 - 11:00	Patrice Theule, France	Diagnostic emission lines in the Early Universe
11:00 - 11:30	Coffee break	

EMISSION LINES IN ACTIVE GALAXIES AND NEBULAE

Chair: E. Stambulchik

11:30 - 12:00	Elena Shablovinskaya, Chile	Optical spectropolarimetry of AGN: Insights on accretion disk, BLR and dust sublimation
12:00 - 12:30	Djordje Savić, Belgium	Probing the BLR geometry for quadruply lensed quasar Q2237+0305 with microlensing time series
12:30 - 12:50	Eugene Malygin, Russia	Polarimetric reverberation mapping of AGNs in medium-band filters
12:50 - 13:10	Edi Bon, Serbia	Optical reverberation mapping of the Fe II lines in NGC 4051
13:10 -13:30	Francesco Di Mille, Chile	Nebular Spectroscopy of the enigmatic San- duleak's star in the LMC
13:30 - 15:00	Lunch	

Tuesday, June 20, 2023 *continuing *

SPECTRAL LINE PHENOMENA IN LABORATORY PLASMAS AND STARS

Chair: M. S. Dimitrijević

15:00 - 15:30	Frank Rosmej, France	X-Ray free electron laser driven resonance pumping of spectral lines of highly charged ions in dense plasmas
15:30 - 16:00	Mohamed Kubiti, France	Application of deep-learning to line spectra in magnetic fusion plasmas
16:00 - 16:20	Evgeny Stambulchik, Israel	Analysis of magnetic-field distribution of a white dwarf
16:20 - 16:40	Sylvie Saha-Bréchot, France	The Feshbach resonances applied to the calculation of Stark broadening of ionized spectral lines: An example of interdisciplinary research
16:40 - 16:55	Abubaker Ahmed Siddig, Saudi Arabia	Systematic atomic structure of the neutral cobalt atom (Co I)
16:55 - 17:10	Lamia Abu El Maati, Egypt	Calculations of energy levels, oscillator strengths, transition probabilities and lifetimes of the C-like ion K XIV
17:10 - 17:40	Coffee break	

POSTER SESSION: SPECTRAL LINES IN ASTROPHYSICAL AND LABORATORY PLASMA

Chair: N. Bon

17:40 - 18:40	Poster session	3 min presentations
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Wednesday, June 21, 2023

SURVEYS AND SPECTRAL LINE VARIABILITY IN EXTRAGALACTIC OBJECTS

Chair: D. Ilić

9:30 - 10:00	Maria Charisi, USA	Multi-messenger searches for supermassive black hole binaries
10:00 - 10:30	Marco Berton, Chile	Exploring the jet-BLR connection: flare- induced variability in the optical emission lines
10:30- 10:50	Nataša Bon, Serbia	Variability of AGN in the context of the main sequence of quasars
10:50 - 11:10	Paola Marziani, Italy	Metal content along the quasar main sequence
11:10 - 11:30	Yu-Yang Songsheng, China	Resolving close binaries of supermassive black holes in the era of optical interferometry
12.00		

12:00 - Conference excursion

Thursday, June 22, 2023

ATOMIC PARAMETERS AND SPECTRAL LINE SHAPES

Chair: R. Stamm

9:30 - 10:00	Annette Calisti, France	Study of the statistical and radiative properties of dense plasmas
10:00 - 10:30	Nikola Cvetanović, Serbia	Complex line shapes in non-thermal laboratory plasma
10:30 - 10:45	Zoran Simić, Serbia	Triply ionized Molybdenum lines in the spectra of the DA-type and the DO-type white dwarfs
10:45 - 11:00	Milan S. Dimitrijević, Serbia	On the Stark broadening of Ga II spectral lines
11:00 - 11:30	Coffee break	

SPECTRAL LINE PHENOMENA IN EXTRAGALACTIC OBJECTS

Chair: A. Moiseev

11:30 - 12:00	Giustina Vietri, Italy	Extremely high-velocity UV outflows in the most luminous QSOs at cosmic noon: discovery, implications & perspectives
12:00 - 12:30	Konrad Tristram, Chile	What the submm spectral line emission in the nucleus of the Circinus galaxy tells us about accretion and feedback in AGN
12:30 - 12:50	Sladjana Knezevic, Serbia	Outflow morphology in the active galactic nucleus of Circinus galaxy
12:50 - 13:10	Majda Smole, Serbia	Reducing the run time of MCRT simulations with help of INLA
13:10 - 13:30	Maria S. Kirsanova, Russia	3D structure of expanding HII regions
13:30 - 15:00	Lunch break	

SPECTRAL LINE PHENOMENA IN EXTRAGALCTIC OBJECTS

Chair: E. Bon

15:00 - 15:30	Lovro Palaversa, Croatia	Gaia as an AGN discovery machine
15:30 - 16:00	Swayamtrupta Panda, Brazil	Emission line regions in active galaxies: selected studies in spectral line variability in the era of JWST and LSST
16:00 - 16:20	Marta Fatović, Croatia	Periodic variability of Stripe 82 quasar light curves and associated changes in Mg II emission line profiles
16:20 - 16:40	Elena Shablovinskaya, Chile	Intraday variations of polarization vector in blazars: A key to the optical jet structure?
16:40 - 17:00	Nemanja Rakić, R.Srpska, B&H	Fantastic fits of AGN spectra with "fantasy"python code
17:00 - 17:30	Coffee break	

SPECTRAL LINE SHAPES IN DIFFERENT SPACE CONDITIONS Chair: **S. Simic**

17:30 - 18:00	Oleg Egorov, Germany	Kinematics of the ionized gas in nearby galaxies as diagnostics of the energy balance between ISM and massive stars
18:00 - 18:15	Karolina Plakitina, Russia	Exploring the spectra and molecular complexity of hot cores in RCW 120
18:15 - 18:30	Priyanka Jalan, Poland	Convolution neural network to characterize the Voigt profile of the Lyman-alpha forest absorbers
18:30 - 18:45	Milica Vučetić, Serbia	Study of faint emission sources and massive stars in IC1613 galaxy
18:45 - 19:00	Sladjana Knežević, Serbia	Studying shock and ambient ISM properties in Balmer-dominated supernova remnants
20:00 -	Conference Dinner	

Friday, June 23, 2023

SPECTRAL LINE RESEARCH: NEW FRONTIERS

Chair: V. Srecković

09:30 - 10:00	Ibtissem Hannachi, France	Computer simulations of the effect of oscillating electric fields on line shapes
10:00 - 10:20	Ivan Traparić, Serbia	Stark broadening modeling with ML and AI algorithms
10:20 - 10:50	Coffee break	

SPECTRAL LINE VARIABILITY AND OTHER CHARACTERISTICS IN AGNS

Chair: P. Marziani

10:50 - 11:20	Predrag Jovanović, Serbia	Optical and X-ray counterpart of subparsec supermassive binary black holes
11:20 - 11:40	Dragana Ilić, Serbia	Long-term monitoring of broad-line AGN
11:40 - 11:55	Alice Deconto- Machado, Spain	On the quasar Main Sequence at high redshift: AGN outflows and radioloudness relations
11:55 - 12:10	Denimara Dias dos Santos, Brazil	Joint analysis of the iron emission in the optical and near-infrared spectrum of I Zw 1

- 12:10 12:30 *Official closing of the conference*
- 12:30 14:00 Lunch break
- 14:15 Departure

POSTERS

P01	Magdalena Christova & Milan S. Dimitrijević	Application of Stark broadening of Al IV spectral lines in astrophysics
P02	Aleksandrina Smirnova	Enigmatic emission structure around the narrow-line Seyfert 1 galaxy Mrk 783
P03	Roland Stamm, Ibtisem Hannachi, J. Rosato, Y. Marandet	Strong distortions of line shapes in peri- odic electric fields
P04	Jelena Kovačević-Dojčinović, Ivan Dojčinović, Luka Č. Popović	The intrinsic reddening in AGNs Type 1.9: influence to the black hole mass es- timation
P05	Benedetta Della Barba et al.	Optical properties of two complementary samples of intermediate Seyfert galaxies
P06	Vladimir . A. Srecković, S. Tošić and V. Vujčić	Dataset for electron-impact processes in- volving hydrogen and alkali molecular ions
P07	Kolarski, A., Srecković V. and Mijić Z.	The influene of Solar X-rays: modeling atmosphere
P08	Kolarski, A., Veselinović, N., Srecković, V. A., Mijic, Z., Savić M. and Dragić A.	Multi instrumental investigation of the powerful solar flares impact on the ionosphere: case study
P09	Arturs Cinins, Milan S. Dimitrijević, Vladimir A. Srecković, Martins Bruvelis, Kaspars Miculis, Nikolai N. Bezuglov and Aigars Ekers	Visualization of adiabatic dark states under two-photon excitation of sodium atoms
P10	Zlatko Majlinger, Milan S. Dimitrijević, Vladimir Srecković	Initial Stark width investigation of Te II spectral lines and their importance in astrophysical applications
P11	Karla Garnica Luna, D. Dultzin, P. Marziani, S. Panda	A spectral energy distribution for extreme population A sources
P12	Sladjana Marčeta-Mandić, Jelena Kovačević-Dojčinović, Luka Č. Popović	The Connection Between the Broad Emission Line Properties and Stellar Velocity Dispersion in Sample of AGNs Type 1
P13,	Miljana Jovanović, Goran Damljanović	Optical Spectral Variability of 12 Blazars