



33rd SUMMER SCHOOL AND
INTERNATIONAL SYMPOSIUM ON
THE PHYSICS OF IONIZED GASES

August 25-28, 2026
Belgrade, Serbia

PROGRAM BOOK



ACKNOWLEDGEMENTS

***The 33rd Summer School and International Symposium on
the Physics of Ionized Gases***

– SPIG 2026 –

is organized by the

Institute of Physics Belgrade

and

Serbian Academy of Sciences and Arts

under the auspices and with the support of the

**Ministry of Science, Technological Development and
Innovation of the Republic of Serbia**

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SPIG 2026

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Conference info

The SPIG 2026 Conference will include 11 Plenary Lectures, 14 Topical Lectures, 21 Progress Reports, 22 Workshop Lectures, and around 60 Poster Presentations across two Poster Sessions.

Two workshops will be organized as satellites of the SPIG 2026:

- *3rd Workshop on Swarm Physics and Gaseous Dielectrics (SPGD)*
- *5th Workshop on X-ray and VUV Interaction with Biomolecules in Gas Phase (XiBiGP)*

Both workshops will take place on Tuesday, August 25th. The 3rd SPGD workshop will bring together leading experts from universities, research institutes, and international organisations to discuss recent advances in swarm-based approaches and their role in understanding and utilising gaseous dielectrics in modern high-voltage and plasma technologies.

The 5th XiBiGP workshop will be dedicated to investigations of small biologically relevant molecules isolated in the gas phase, bio-functionalized nanoparticles and clusters, biomolecules in liquids (in vacuo liquid jet spectroscopy) and action spectroscopy of macromolecular ions.

Venue

Serbian Academy of Sciences and Arts (SASA)
Knez Mihailova 35, Belgrade

The scientific program will take place in two lecture halls:

Hall A (2nd floor): Plenary Sessions and Parallel Sessions;

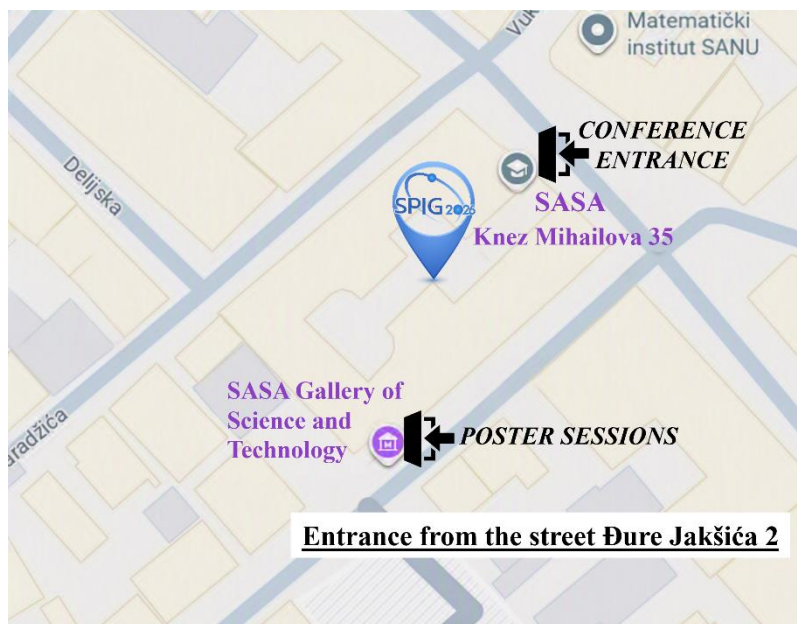
Hall B (1st floor): Parallel Sessions.

The Registration Desk will be located next to Hall A on the 2nd floor and will be open from 8:30 on Tuesday, 26 August, throughout the conference.

Coffee Breaks will take place in front of Hall A (*2nd floor*).

Posters will be presented in two Sessions, *in the SASA Gallery of Science and Technology* (entrance from the street Đure Jakšića 2, see map below).

Please note that the maximum poster size is A1 portrait, with dimensions of 59 cm in width and 84 cm in height.



Dress code

Serbian Academy of Sciences and Arts is a distinguished institution of supreme national importance. We kindly ask you to respect the ***dress code*** and not to wear:

- *short skirts and short pants;*
- *thin shoulder straps, tank tops, and sleeveless shirts;*
- *flip-flops and open-toed sandals.*

Social Program

- **Welcome Cocktail:** *SASA Club (Mezzanine), Tuesday 25th August, 18:00 - 20:00.*
- **Conference Dinner:** *Restaurant “Velika Skadarlija”, Skadarska 40d, Belgrade, Friday 28th August, 20:00.*

Information for Speakers

Conference computers will be available for presentations in both lecture halls. Please load your presentations well in advance to avoid delays during sessions.

If you would like to use your own computer, please make sure that the connection to your computer works correctly during any break before your session.

SPIG 2026 PROGRAM

PL: Plenary Lecture – 45 min (35 + 10 min);

TL: Topical Lecture – 30 min (25 + 5 min);

PR: Progress Report – 20 min (15 + 5 min)

WL: Workshop Lecture – 30 min (25 + 5 min)

Tuesday 25th August 2026

3rd SPGD Workshop

Session 1

Hall A

Chair: Saša Dujko

9:00 – 9:30 **Armando Francesco Borghesani**, Università degli Studi di Padova, Italy
Multiple scattering effects in the electron drift mobility in dense noble gases

9:30 – 10:00 **Jelena Marjanović**, Institute of Physics Belgrade, Serbia
Discharge behavior in fourth-generation freons under swarm-like conditions

10:00 – 10:30 **Jan van Dijk and Daan Boer**, Eindhoven University of Technology, The Netherlands
Reliable data dissemination with LXCat and ChemCat: A status update

10:30 – 11:00 Coffee Break

Session 2

Hall A

Chair: Armando Francesco Borghesani

- 11:00 – 11:30 **Greg Boyle**, James Cook University, Australia
Beyond simple drift–diffusion: Skewness and boundary effects in pulsed Townsend experiments
- 11:30 – 12:00 **Satoru Kawaguchi**, Muroran Institute of Technology, Japan
Bayesian inference for determining electron swarm parameters from steady-state Townsend experiments
- 12:00 – 12:30 **Ron White**, James Cook University, Australia
From electron swarms to benchmark theory: Revisiting and resolving (?) the great hydrogen controversy
- 12:30 – 14:30 Lunch break

Session 3

Hall A

Chair: Jan van Dijk

- 14:30 – 15:00 **Robert Marskar**, SINTEF Energy Research, Norway
Simulating streamer discharges from low to high pressures with high-performance computing
- 15:00 – 15:30 **Christoph Köhn**, Technical University of Dortmund, Germany
A GPU approach to streamer modelling
- 15:30 – 16:00 **Thomas J.G. Smits**, Centrum Wiskunde & Informatica, The Netherlands
Reduced models for streamers, based on transport data
- 16:00 – 16:30 Coffee Break

Session 4

Hall A

Chair: Dragana Marić

16:30 – 17:00 **Tiago Cunha Dias**, Eindhoven University of Technology, The Netherlands
Coulomb collisions in low-temperature plasmas

17:00 – 17:30 **Aleksandar Jovanović**, Leibniz Institute for Plasma Science and Technology (INP), Germany
Understanding striation formation in atmospheric-pressure discharges in argon

5th XiBiGP Workshop

Session 1

Hall B

Chair: Aleksandar Milosavljević

9:00 – 9:30 **Filipe Ferreira da Silva**, Nova University, Portugal
Vacuum ultraviolet photoabsorption spectroscopy of benchmark organic molecules

9:30 – 10:00 **Ville Lindblom**, Lund University, Sweden
Intra/Inter molecular chemistry in nano-solvated glycine clusters

10:00 – 10:30 **In Memoriam: Prof Lorenzo Avaldi**

10:30 – 11:00 Coffee Break

Session 2

Hall B

Chair: Myriam Drissi

11:00 – 11:30 **Mathieu Gisselbrecht**, Lund University, Sweden
Momentum spectroscopy as a tool to unravel charge dynamics in molecular clusters

11:30 – 12:00 **Danijela Danilović**, Vinča Institute of Nuclear Sciences, Serbia
Valence electronic structure of hybrid azobenzene-gold nanoparticles studied by VUV photoelectron spectroscopy

12:00 – 12:30 **Etienne Rouquet**, Fritz Haber Institute, Max Planck Society, Germany
Induced photoelectron circular dichroism onto an achiral chromophore

12:30 – 14:30 Lunch break

Session 3

Hall B

Chair: Mathieu Gisselbrecht

14:30 – 15:00 **Thomas Schlathölter**, University College Groningen, The Netherlands
Bond formation following activation of gas-phase amino acid clusters

15:00 – 15:30 **Lara Martínez-Fernández**, Instituto Química Física Blas Cabrera, CSIC, Spain
Theoretical insights into the UV photoresponse of biomolecules

15:30 – 16:00 **Cintia Aparecida Pires Da Costa**, University of Trento, Italy
Degradation of polymer building blocks due to reactions with ionospheric state selected O^+ (4s, 2d) ion analogs

16:00 – 16:30 Coffee Break

Session 4

Hall B

Chair: Sylvain Maclot

16:30 – 17:00 **Petr Slavíček**, University of Chemistry and Technology, Czech Republic
Probing and transforming hydrated biomolecules with X-rays: A theoretical perspective

17:00 – 17:30 **Juliette Leroux**, University of Hamburg, Germany
From gas-phase to liquid phase: Probing the electronic structure of amino acids with X-ray spectroscopy

17:30 – 18:00 **Samrat Saha**, J. Heyrovský Institute of Physical Chemistry, Czech Republic
Electron induced reactivity in aqueous media using a liquid microjet

18:00 – 20:00 **SPIG 2026 WELCOME COCKTAIL**
SASA Club (Mezzanine of the Serbian Academy of Sciences and Arts)

Wednesday 26th August 2026

Plenary Session 1

Hall A

Chair: Zoran Lj. Petrović

9:00 – 9:45 **THE 33RD SPIG OPENING CEREMONY**

9:45 – 10:30 PL1 **Santo Gammino**, Istituto Nazionale di Fisica Nucleare, Laboratori Nazionali del Sud, Italy
Plasmas for the generation of ion beams: Theory and technology

10:30 – 11:00 Coffee Break

Plenary Session 2

Hall A

Chair: Aleksandar Milosavljević

11:00 – 11:45 PL2 **Tatiana Marchenko**, Sorbonne Université, CNRS, Laboratoire de Chimie Physique-Matière et Rayonnement, France
Charge transfer in organic molecules probed by X-ray spectroscopy

11:45 – 12:30 PL3 **Nigel Mason**, Physics and Astronomy, School of Engineering, Mathematics and Physics, University of Kent, UK
New paradigms in AMO data collections; the need for compilations of higher excited states of polyatomic molecules

12:30 – 14:30 Lunch break

Parallel Session A1

Hall A

Chair: Nigel Mason

- 14:30 – 15:00 TL1 **Aleksandar Milosavljević**, Synchrotron SOLEIL, France
PE(AE)PIPICO Spectroscopy at PLEIADES – Experimental methods and data processing enabling state-resolved studies of unimolecular decomposition in the soft X-ray range
- 15:00 – 15:30 TL2 **Radovan Dojčilović**, Vinča Institute of Nuclear Sciences, Serbia
Probing ultrafast dynamics of charge carriers and valence band structure in perovskite-inspired materials
- 15:30 – 15:50 PR1 **Namitha Deepak**, University of Potsdam, Germany
Metal-organic interface of isolated ligand coated silver nanoparticles in the gas phase

Parallel Session B1

Hall B

Chair: Vladimir Milosavljević

- 14:30 – 15:00 TL3 **Miloš Skočić**, University of Belgrade, Faculty of Physics, Serbia
Measurement of plasma parameters during the formation of the laser-induced breakdown
- 15:00 – 15:30 TL4 **Arturo Popoli**, University of Bologna, Italy
Modeling perspectives on non-thermal plasmas for in-atmosphere propulsion and active flow control
- 15:30 – 15:50 PR2 **Thomas Clark**, Laboratoire d'Optique Appliquée, ENSTA, Ecole Polytechnique, CNRS, Institut Polytechnique de Paris, France
Streamer discharges assisted by femtosecond laser filamentation in air

15:50 – 16:30 Coffee Break

Parallel Session A2

Hall A

Chair: Nenad Simonović

16:30 – 16:50 PR3 **Sanket Sen**, Synchrotron SOLEIL, Institut des Sciences Moléculaires d'Orsay, CNRS, Université Paris-Saclay, France
Photoelectron circular dichroism in helical chirality showcase: The Helicenes family

16:50 – 17:10 PR4 **Aarathi Sathi Nair**, The Hamburg Centre for Ultrafast Imaging, Germany
Radiation damage of nucleotides - the story revealed by X - ray action spectroscopy

17:10 – 17:30 PR5 **Sreeja Raghunandanan**, Centre de Recherche sur les Ions, les Matériaux et la Photonique, Université Caen Normandie, France
Radiation effects on C/N-rich organic ices: Implications for Titan's stratospheric chemistry

Parallel Session B2

Hall B

Chair: Miroslav Kuzmanović

16:30 – 16:50 PR6 **Violeta Lazić**, Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA), Italy
Detection of explosives in traces by laser induced shockwaves and plasma spectroscopy

16:50 – 17:10 PR7 **Lex Kuijpers**, Dutch Institute for Fundamental Energy Research, Eindhoven Institute of Renewable Energy Systems Eindhoven University of Technology, The Netherlands
Optical diagnostics development for microwave-plasma based gas conversion

17:10 – 17:30 PR8 **Nikolai Bogachev**, Prokhorov General
Physics Institute of the Russian Academy of Sciences,
Russia
*Piezoelectric transformer-based atmospheric-pressure
plasma sources: types, parameters, operational features
and applications*

17:30 – 19:00 **Poster Session 1**

Gallery of Science and Technology, SASA

Posters: 1.1 – 1.9; 2.1–2.5; 3.1 – 3.14

Thursday 27th August 2026

Plenary Session 3

Hall A

Chair: Tiago Silva

- 9:00 – 9:45 PL4 **Mathieu Bertin**, Sorbonne Université,
MONARIS, France
*Photon-induced desorption from molecular ices: What is
currently known from laboratory astrophysics experiments*
- 9:45 – 10:30 PL5 **Nikolay Britun**, Centre for Low-temperature
Plasma Sciences (cLPS), Nagoya University, Japan
*Quantification of gaseous species: Relevant spectroscopic
techniques and their application to plasma-based gas
conversion*

10:30 – 11:00 Coffee Break

Plenary Session 4

Hall A

Chair: Marko Čosić

- 11:00 – 11:45 PL6 **Sultan Dabagov**, INFN Laboratori
Nazionali di Frascati, Italy
Advanced channeling to guide charged & neutral beams
- 11:45 – 12:30 PL7 **Jin Yu**, School of Physics and Astronomy,
Shanghai Jiao Tong University, Shanghai, China
*Spectroscopic applications of laser-induced plasma in the
context of artificial intelligence*
- 12:30 – 14:30 Lunch break & SPIG Committee meeting

Parallel Session A3

Hall A

Chair: Saša Dujko

- 14:30 – 15:00 TL5 **Satoru Kawaguchi**, Muroran Institute of Technology, Japan
Electron collision cross section sets for C-C₄F₈ and 1,3-C₄F₆
- 15:00 – 15:30 TL6 **Gregory Boyle**, James Cook University, Australia
Electron transport in noble liquids: From swarm physics to next-gen particle detectors
- 15:30 – 15:50 PR9 **Mariana Ribeiro**, Instituto de Plasmas e Fusão Nuclear, Instituto Superior Técnico, Universidade de Lisboa, Portugal
Electron swarm analysis and iterative actinometry for improved CF₄ plasma diagnostics

Parallel Session B3

Hall B

Chair: Violeta Lazić

- 14:30 – 15:00 TL7 **Ruslan Rymzhanov**, Joint Institute for Nuclear Research, Russia
From ionization to structural transformation: Mechanisms of swift heavy ion track formation in solids
- 15:00 – 15:30 TL8 **Srdan Petrović**, Laboratory of Physics, Vinča Institute of Nuclear Sciences, University of Belgrade, Serbia
Crystal rainbow channeling and the superfocusing effect
- 15:30 – 15:50 PR10 **Saša Simić**, Faculty of Science, University of Kragujevac, Serbia
Investigation of AGN variability using PoSKI model
- 15:50 – 16:30 Coffee Break

Parallel Session A4

Hall A

Chair: Ivan Radović

- 16:30 – 17:00 TL9 **Nikolai Tarasenko**, B.I. Stepanov Institute of Physics, National Academy of Sciences of Belarus, Belarus
Plasma assisted fabrication and modification of compositionally complex nanomaterials in liquid: Capabilities and challenges
- 17:00 – 17:20 PR11 **Nora Trklja Boca**, Faculty of Physics, University of Belgrade, Serbia
Magnetoplasma compressor as a source of plasma for material treatment purposes
- 17:20 – 17:40 PR12 **Vitaly Kuzmenko**, Moscow Institute of Physics and Technology, Russia
Diagnostics of low-temperature plasma of fluorine-containing gases for optimization of plasma etching processes of dielectrics in microelectronics

Parallel Session B4

Hall B

Chair: Jelena Kovačević-Dojčinović

- 16:30 – 17:00 TL10 **Ivan Milić**, Institute for Solar Physics, Germany
Spectropolarimetric plasma diagnostics in the atmospheres of the Sun and stars
- 17:00 – 17:20 PR13 **Evgeny Mikhailov**, P.N. Lebedev Physical Institute of RAS; M.V. Lomonosov Moscow State University, Russia
Dynamo action in low density plasma in expanding galactic discs

17:20 – 17:40 PR14 **Ivan Živanović**, Astronomical Observatory
of Belgrade, Serbia

*Relation between the brightness and magnetic field in the
sunspots: The saturation effect*

17:40 – 19:10 **Poster Session 2**

Gallery of Science and Technology, SASA

Posters: 1.10 – 1.18; 2.6– 2.10; 3.15 – 3.28; 4.1

Friday 28th August 2026

Plenary Session 5

Hall A

Chair: Bratislav Obradović

9:00 – 9:45 PL8 **Yuri Akishev**, State Research Center of
Russian Federation - Troitsk Institute for Innovative and
Fusion Research, Joint-Stock Company, Russia
*A magnetic field influence on structure of volumetric and
surface gas discharges*

9:45 – 10:30 PL9 **Vito Despoja**, Institute of Physics, Zagreb,
Croatia
Electron-phonon-photon interaction in polar 2D crystals

10:30 – 11:00 Coffee Break

Plenary Session 6

Hall A

Chair: Miloš Škorić

11:00 – 11:45 PL10 **Ryo Yasuhara**, National Institute for
Fusion Science, Japan
*Ultra high repetition rate high energy laser for plasma
application*

11:45 – 12:30 PL11 **Christoph Köhn**, Department of Physics,
Technical University of Dortmund, Germany
*Plasma physics across scales: From streamer physics to
terrestrial gamma-ray flashes*

12:30 – 14:30 Lunch break

Parallel Session A5

Hall A

Chair: Dragana Marić

- 14:30 – 15:00 TL11 **Aliaksandra Kazak**, Institute of Physics of NAS of Belarus
Atmospheric pressure plasma jet – from discharge processes to controlled biological response
- 15:00 – 15:30 TL12 **Nikola Škoro**, Institute of Physics, University of Belgrade, Serbia
Application of atmospheric pressure plasma in agriculture: Water decontamination and activation
- 15:30 – 15:50 PR15 **Olivera Jovanović**, Institute of Physics, University of Belgrade, Serbia
Atmospheric pressure plasma pin-jet: Diagnostics and applications in water treatment

Parallel Session B5

Hall B

Chair: Sanja Tošić

- 14:30 – 15:00 TL13 **Felipe Fantuzzi**, School of Natural Sciences, University of Kent, UK
From ionisation to detection: Computational predictions of molecular ions in astrochemical environments
- 15:00 – 15:30 TL14 **Janos Zsolt Mezei**, HUN-REN Institute for Nuclear Research, Hungary
Electron-driven reactivity of molecular cations in cold plasmas
- 15:30 – 15:50 PR16 **Jan Šenk**, Sorbonne Université, CNRS, Laboratoire de Chimie Physique Matière et Rayonnement, France
Latest theoretical investigations of the interparticle Coulombic electron capture

15:50 – 16:30 Coffee Break

Parallel Session A6

Hall A

Chair: Gregory Boyle

16:30 – 16:50 PR17 **Dale Muccignat**, College of Science and Engineering, James Cook University, Australia

Inverse problems in electron scattering: Liquid microjet and e -H₂

16:50 – 17:10 PR18 **Anthony Jeseněk**, Laboratoire de Physique et de Chimie de l'Environnement et de l'Espace (LPC2E), Université d'Orléans, France

Analytical cross section sets for collisions of supra-thermal electrons with molecules

17:10 – 17:30 PR19 **Ivan Hristov**, Sofia University "St. Kliment Ohridski", Bulgaria

Computing reliable numerical solutions of chaotic dynamical systems

Parallel Session B6

Hall B

Chair: Milan Trtica

16:30 – 16:50 PR20 **Jasna Stevanović**, University of Kragujevac, Faculty of Science, Serbia

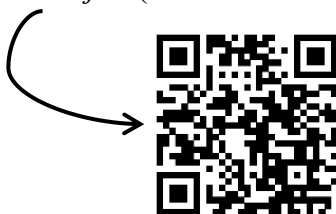
Numerical code for calculating the ionization event occurring on short time scales in laser induced breakdown of gases

16:50 – 17:10 PR21 **Željko Mravik**, Laboratory of Physics, Vinča Institute of Nuclear Sciences, University of Belgrade, Serbia

Ion beam modified graphene oxide sensors for monitoring CO, NO₂, and SO₂

17:30 – 20:00 Free Time

20:00 – 00:00 **Conference Dinner** – *Restaurant “Velika Skadarlija” (address: Skadarska 40d, Belgrade)*



Saturday 29th August 2026 – Optional Excursions

– **Departure** –

POSTER SESSION 1, Wednesday, 17:30 – 19:00

Posters: 1.1 – 1.9; 2.1– 2.5; 3.1 – 3.14

1. ATOMIC COLLISION PROCESSES

- 1.1. Bratislav P. Marinković, Jelena B. Maljković and Jozo J. Jureta
Studies of Autoionizing States in Molecular Nitrogen at 302.25 eV of Electron Incident Energy
- 1.2. Bogdan Popović, Tiberiu Minea, Thomas Thuillier, and Adrien Revel
Ion Generation in Electron Cyclotron Resonance Ion Sources (ECRIS)
- 1.3. Nikoleta Vojinović and Goran B. Poparić
Relative Partial Cross-Sections for Electron Impact Ionization of CO₂
- 1.4. Zoran Lj. Petrović, Vladimir Stojanović, Ilija Stefanović, Ivan Petraš, Jasmina Jovanović and Dragana Marić
A Set of Cross Sections for H₃O⁺ Ions in H₂O
- 1.5. Jelena Vukalović, Jelena Maljković, Nenad Simonović, Shruti Sarswat, Jobin Jose and Himadri S. Chakraborty
Electron Diffraction from the Methane Molecule
- 1.6. Sanja Tošić, Vladimir A. Srećković and Veljko Vujčić
Hydrogen Migration and Metastable Dynamics in Electronically Excited Methanimine

- 1.7. Sanja Tošić, Vladimir A. Srećković and Veljko Vujčić
Energy-Dependent Rearrangement Pathways in Excited CH₂NH
- 1.8. Jelena B. Maljković, Jelena Vukalović, Bratislav P. Marinković, Vladimir Srećković, Hristina Delibašić-Marković, Sanja Tošić and Violeta Petrović
Fundamental Collision Processes in Atomic and Molecular Systems: Integrating Experiment, Theory, and Numerical Modelling within the ATMOLCOL Project
- 1.9. Jelena Vukalović, Bratislav P. Marinković, Francisco Blanco, Gustavo Garcia and Jelena B. Maljković
Elastic Electron Scattering from Gas-Phase Inhalation Anaesthetic Molecules

2. PARTICLE AND LASER BEAM INTERACTIONS WITH SOLIDS

- 2.1. Milivoje Hadžijojić, Marko Ćosić, and Ruslan Rymzhanov
A Study of Twisted Bilayer Graphene via Proton Rainbow Scattering
- 2.2. S. M. D. Galijaš, V. Milosavljević and G. B. Poparić
Non-Linear Phenomena of the Electron State Evolution in the Ion-Surface System
- 2.3. Ivan Radović, Lazar Karbunar, Vito Despoja and Zoran L. Mišković
Phonon-Induced Wake Potential in a Graphene-hBN-Graphene Heterostructure
- 2.4. Nikola Starčević and Srđan Petrović
Ion Beam Analysis Using Rainbow Scattering in Channeling

- 2.5. N. A. Bosak, A. N. Chumakov, L. V. Baran, V. V. Maljutina-Bronskaya, A. A. Shevchenok, A. V. Buka, A. S. Kuzmitskaya and N. V. Podvitsky
Optical and Electrical Properties $\text{LaMnO}_3 + 1\% \text{Er}_2\text{O}_3$ Films

3. LOW TEMPERATURE PLASMAS

- 3.1. Dušan K. Božanić, Gustavo A. Garcia, Jelena Pajović, Željko Šljivančanin, Vladimir Djoković and Laurent Nahon
Photoelectron Attenuation Circular Dichroism Observed on Isolated Tryptophan Functionalized Gold Nanoparticles
- 3.2. Pierre Mathieu, Michael K. T. Mo, Masaru Hori and Nikolay Britun
Electric Field Behaviour in the Burst Regime of a Repeatable Nanosecond He-Based Atmospheric Discharge
- 3.3. Vladimir Gavrilović, Biljana D. Stankov and Miroslav Kuzmanović
Temporal Evolution of Spectral Lines in TEA CO_2 Laser-Induced Graphite Plasma
- 3.4. Jovica Jovović
The Spectroscopic Diagnostics of Low Pressure Pulsed Discharge: A Review
- 3.5. Violeta Lazić and Biljana Stankov
Detection of Explosives in Traces by Laser Induced Shockwaves and Plasma Spectroscopy

- 3.6. Aleksandra Šajić, Dragan Ranković, Miroslav Ristić, Milica Marković and Miroslav Kuzmanović
Signal Enhancement in LIBS Analysis of Glass Using Copper Thin Film Coating
- 3.7. N. Krstevski, A. Šajić, M. Marković, S. Tomić, M. Ristić and M. Kuzmanović
Different Models for Ionization Potential Lowering in Argon Plasma
- 3.8. Goran B. Sretenović, Vesna V. Kovačević, Ognjen Grkinić, Bratislav M. Obradović, Ivan B. Krstić, Milorad M. Kuraica and Predrag Ranitović
Spectroscopic Study of a Plasma Channel Produced by a Femtosecond Laser in Argon
- 3.9. Leanid Simonchik and Maxim Usachonak
Determination of Electron Concentration in Pulsed Discharges Using Microwave Radiation Transmission Through Waveguides with Periodic Structures
- 3.10. Nikola Vujadinović, Ivan Traparić, Biljana D. Stankov, Dragan Ranković, Alexandru Anghel, Corneliu Porosnicu, Ion Mihailescu, Miroslav Kuzmanović & Milivoje Ivković
Application of Microwave-Induced Plasma for Hydrogen Isotope Detection Studies
- 3.11. Maja S. Rabasovic, Dragana M. Pavlovic, Dragutin Sevic and Bratislav M. Obradovic
Analysis of Indium LIBS Streak Images Using Dimensionality Reduction Techniques

- 3.12. Saša Dujko, Ilija Simonović, Danko Bošnjaković, Pierre Gourbin and Christoph Köhn
Influence of Solar Activity on the Temporal and Spatial Development of Sprite Streamers
- 3.13. V. V. Kovačević, G. B. Sretenović, N. Bonifaci, C. Pichard, C. Cachoncinlle, A. Khacef and S. Iséni
Inception Dynamics and Electric Field of an Electrodeless Double-Headed Streamer at Atmospheric Pressure
- 3.14. Jelena Marjanović, Dragana Marić and Zoran Lj. Petrović
Effective Ionization Coefficient and Secondary Electron Emission in HFO-1234yf and HFO-1234ze(E)

POSTER SESSION 2, Thursday, 17:40 – 19:10

Posters 1.10 – 1.18; 2.6– 2.10; 3.15 – 3.28; 4.1

1. ATOMIC COLLISION PROCESSES

- 1.10. M. Ristić and M. Vojnović
Vibrational Excitation of CO Under Conditions of Electron Cyclotron Resonance
- 1.11. N Velasquez, A Nyborg, H Kaur, O Travnikova, D Céolin, B Winter, M Iannuzzi, E Muchová, F Trinter and T Marchenko
Ultrafast Charge-Transfer-to-Solvent in Aqueous L-Cysteine
- 1.12. Nenad Milojević, Danilo Delibašić, Ivan Mančev, Miloš Milenković and Jelena Arsenijević
Angular Distributions for Single-Electron Capture in Collisions of Fast Protons with Neon
- 1.13. D. Bošnjaković, I. Simonović and S. Dujko
Impact of Initial and Boundary Conditions on Current Waveform Analysis in an Idealized Pulsed-Townsend Experiment
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