

Session Program

November 26, 2025



MatFyz CONNECTIONS 2025

*Poster session + káva: prezentácie študentov Fyzika*

## Wed, November 26

11:00 AM

### Poster session + káva: prezentácie študentov Fyzika

Session | Conveners: Robert Breier, Peter Cermak

11:00 – 11:01 AM

Verification of photometric transformations for small Solar System bodies on Main-Belt asteroid color data

11:01 – 11:02 AM

Impact of Air Humidity, Reactor Geometry and AC/DC Power on Electrical and Chemical Characteristics of Discharge in Honeycombs

11:02 – 11:03 AM

Optical study of the interaction between Transient Spark and Electrospray

11:03 – 11:04 AM

Absorption spectroscopy of radicals produced by atmospheric-pressure discharges

11:04 – 11:05 AM

Study of transient spark using schlieren imaging

11:05 – 11:06 AM

OPTIMISATION OF THE LITHOGRAPHY AND PYROLYSIS PROCESS OF SU-8 RESIST FOR FABRICATION OF CONDUCTIVE MICROSTRUCTURES

11:06 – 11:07 AM

Analysis of Low-Temperature Plasma Treatments on Polymer Surface Properties

11:07 – 11:08 AM

Reactive species stability in plasma-activated water generated by different atmospheric pressure plasmas

11:08 – 11:09 AM

THEORETICAL INVESTIGATION OF PLASMA INDUCED DEGRADATION OF CHLORPYRIFOS

11:09 – 11:10 AM

Determination of Biogenic Carbon Fraction in Liquid Fuels by Accelerator Mass Spectrometry

Speaker

Boris Bobal

11:10 – 11:11 AM

Datovanie artefaktov s využitím rádioaktívneho uhlíka  $^{14}\text{C}$  a stanovenie prvkového zloženia pigmentov metódou PIXE

11:11 – 11:12 AM

Fluorescence emission of CO induced by electron impact

11:12 – 11:13 AM

Preselection of emission lines for future CF LIBS analysis of the suitable fusion devices first wall material

11:13 – 11:14 AM

Study of Laser-Induced Plasma Dynamics with Rapid Imaging and Shadowgraphy in an Acoustic Levitation System

12:00 PM

11:14 – 11:15 AM

Rapid Degradation of Coumarin via In Situ Hydroxyl Radical Generation Induced by Recycled Gas from a DBD Plasma Bubble Reactor

11:15 – 11:16 AM

Detection of Indoor Ketones Using Ion Mobility Spectrometry with Air as Carrier Gas

11:16 – 11:17 AM

Comparison of two gridded climatological observation-based datasets for use in climate projections development

11:17 – 11:18 AM

Low-energy electrons interaction with acetone ( $\text{CH}_3)_2\text{CO}$  in the UV-Vis spectral region