

## Session Program

August 28, 2022 to September 1, 2022



## BPU11 CONGRESS

### *S02 Astronomy and Astrophysics*

Serbian Academy of Sciences and Arts – SASA  
Knez Mihailova St. 35, Belgrade

## Tue, August 30

2:00 PM

### S02 Astronomy and Astrophysics

Session | Location: MI SASA, Hall 301F | Convener: Predrag Jovanovic

2:00 – 2:30 PM **New Technologies and HI Mapping Results from CRAFTS**

**Speaker**

Marko Krco

2:30 – 2:45 PM **Lightcurve analysis on asteroids from BNAO Rozhen observations in 2021**

**Speaker**

Elena Vchkova Bebekovska

2:45 – 3:00 PM **The new 1.5-meter robotic telescope for the Rozhen Observatory**

**Speaker**

Evgeni Semkov

3:00 – 3:15 PM **Polarization of the Daytime Sky**

**Speaker**

Yovelina Zinkova

3:15 – 3:30 PM **Wavelet analysis of the near-surface air temperature in Bulgaria**

**Speaker**

Grozdan Shirov

4:00 PM

4:30 PM

### S02 Astronomy and Astrophysics

Session | Location: MI SASA, Hall 301F | Convener: Dejan Urošević

4:30 – 5:00 PM

**Diffusive Shock Acceleration of Cosmic Rays - Quasi-thermal and Non-thermal Particle Distributions**

**Speaker**

Bojan Arbutina

5:00 – 5:15 PM **Updated BBN cosmological constraints on Beyond Standard Model physics**

**Speaker**

Daniela Kirilova

5:15 – 5:30 PM

**Changes introduced by Cooling Flow (CF) effect, on Sunyaev-Zaldovich (S-Z) inverse Compton effect, profiling the hot electronic plasma on Clusters of Galaxies.**

**Speaker**

Enkelejd Çaçá

5:30 – 5:45 PM **Variability of massive stars in IC342 galaxy**

**Speaker**

Dr Antoniya Valcheva

5:45 – 6:00 PM **Flares of Solar Cycle 24 Related to Active Regions**

6:00 PM

**Speaker**  
Tsvetan Tsvetkov