BLU 2026 - workshop of the Bulgaria – Latvia – Ukraine Initiative for Space Weather Investigations

June 8 - 12, 2026

Primorsko, Bulgaria

BLU – 26 PROGRAMME

https://en.venta.lv/science/initiative-for-space-weather-investigations-2026

8 June 2026 — Session 1

16:00 – 18:00, 15 min for each presentation

1. Melnik V., Dorovskyy V., Shergelashvili B. A model of nonisothermal solar corona.
2. Melnik V., Dorovskyy V. Spectral analysis of a single Type III burst in the extra-wide frequency range of 0.3–19 MHz according to PSP observations.
3. Dorovskyy V., Melnik V., Shevchuk M., Brazhenko A. Radio manifestations of the CME occurred on 21 August 2015.
4. Shevchuk M., Dorovskyy V., Melnik V., Pavlichenko U., Konovalenko A. Comparative analysis of CME core and coronal plasma parameters using decameter radio spikes.
5. Shevchuk M., Bubnov I., Dorovskyy V., Melnik V., Pavlichenko U., Konovalenko A., Yerin S. Detection of coronal Alfvén waves using radio astronomical methods.
6. Lytvynenko O., Shepeliev V. The impact of the strong 2003 geomagnetic storm on ionospheric turbulence at mid-latitudes according to URAN-4 radio telescope observations.

9 June 2026 — Session 2

16:00 – 18:00, 15 min for each presentation

7. Bezrukovs V. Updates on Solar Observations and Space Weather Research at VIRAC.
8. Ryabov M., Sukharev A., Orlyuk M., Usoskin I., Bezrukov V., Šteinbergs J., Romenets A., Zabora D. Kashuba V. Indicators of Local Manifestations of Space Weather Extremes on the Ionosphere in the «Struve Arc Area».
9. Orlyuk M., Romenets A., Marchenko A. Manifestation of strong magnetic storms around the meridian of the Struvé Geodesic Arc.
10. Ryabov M., Sukharev A., Komendant V. Basic properties of the 25th cycle of solar activity using super-resolution wavelet data.
11. Sukharev A., Orlyuk M., Ryabov M., Zabora D., Romenets A., Sumaruk Yu., Kashuba V., Bezrukovs V., Steinbergs J., Orbidans A., Usoskin I., Kero A. Variations in space weather conditions during the annular solar eclipse of 17 February 2026 over Antarctica.

10 June 2026 — Session 3

16:00 – 18:00, 15 min for each presentation

12. Derevyahin V., Sukharev A., Ryabov M., Lytvynenko O., Zabora D., Bezrukovs V., Steinbergs J., Orbidans A. Evaluating the performance of SDR receivers for monitoring ionospheric scintillations at RT URAN-4.
13. Sukharev A., Ryabov M., Bezrukovs V., Steinbergs J., Orbidans A., Derevyahin V., Lytvynenko O., Usoskin I., Zabora D. Dynamics of ionospheric scintillations of space radio sources during geomagnetic disturbances observed with the LOFAR (Latvia) and URAN-4 (Ukraine) radio telescopes.
14. Shymbarova O., Zabora D., Ryabov M., Sukharev A., Dubovenko V. The digitization programme of analog recordings of powerful radio sources at RT URAN-4: progress and results.
15. Zabora D., Shymbarova O., Ryabov M., Sukharev A., Dubovenko V. Long-lasting magnetic storm of 25–30 April 1989 and the state of the ionosphere based on digitized analog observations at RT URAN-4.
16. Lytvynenko O., Orlov V., Derevyahin V., Yasynskyi V. Tasks of modernizing the hardware and software complex for radiometric measurements on the URAN-4 radio telescope.