

XXVI Gamow International Astronomical Conference:
"ASTRONOMY AND BEYOND: ASTROPHYSICS, COSMOLOGY AND
GRAVITATION, ASTROPARTICLE PHYSICS, RADIO ASTRONOMY,
ASTROBIOLOGY AND GENETICS"

August 17–21, 2026, Odesa, Ukraine

(Attention, the indicated time corresponds to the time in Odesa, i.e. UTC+3)

August 17 (10:00 – 13:00)

Zoom Meeting

<https://us02web.zoom.us/j/7278931881?pwd=8ojjDWftkk1SP8XVSYYEYvgIBr4xQN.1>

Meeting ID: 727 893 1881

Passcode: 12345

(Convener – **O. M. Ulyanov**)

10:00-10:30 OPENING OF THE CONFERENCE

Greetings of the Rector of the Odesa I.I.Mechnikov National University *V.I.Truba*

Awarding the Gamow Medal *Roberto Ragazzoni* (President of the Italian National Institute for Astrophysics, INAF, Rome, Italy)

Greetings of the President of the Ukrainian Astronomical Association *Ya.S.Yatskiv*

Greetings of the CoChair LOC Co-Chairs: *B.S.Novosyadlyj, V.V.Zakharenko* (IRA NASU)

PLENARY SESSION – reports of the Laureates of the Gamow Medal of ONU and the Gamow Prize of NASU (40 min)

1. 10:30-11:10 **Roberto Ragazzoni** (President of the Italian National Institute for Astrophysics, INAF, Rome)
BEYOND LAGRANGE: WHERE ARE THE FUNDAMENTAL LIMITS OF LARGE TELESCOPES?
2. 11:20-12:00 **Filippo Zerbi** (INAF, Brera Astronomical Observatory, Milan)
THE SKAO OBSERVATORY: THE FUTURE OF RADIO ASTRONOMY
3. 12:10-12:50 **Yu.Izotov** (Bogolyubov Institute for Theoretical Physics of the National Academy of Sciences of Ukraine, Kyiv)
COMPACT STAR-FORMING GALAXIES AND THEIR IMPACT ON COSMIC RE-IONIZATION

August 17 (14:00 – 17:00)

Zoom Meeting

<https://us02web.zoom.us/j/7278931881?pwd=8ojjDWftkk1SP8XVSYYEYvgIBr4xQN.1>

Meeting ID: 727 893 1881

Passcode: 12345

MEMORIAL SESSION (Report – 40 min)

1. 14:00-14:40 **Bohdan Novosyadlyj** (Astronomical Observatory of Ivan Franko National University of Lviv, Ukraine)
80-TH ANNIVERSARY OF GAMOW'S HYPOTHESIS ON COSMOLOGICAL NUCLEOSYNTHESIS

2. 14:45-15:25 ***I.E.Rikun, N.I.Koshkin, M.I.Ryabov*** (Odesa National Scientific Library; Astronomical Observatory of Odesa I.I.Mechnikov National University; IRA NASU)
OUTSTANDING DIRECTORS OF THE ODESA ASTRONOMICAL UNIVERSITY OBSERVATORY: TO THE 155TH ANNIVERSARY
3. 15:30-16:10 ***O.O.Konovalenko, V.V.Zakharenko, O.M.Ulyanov et al.*** (IRA NASU)
70 YEARS OF LOW-FREQUENCY RADIO ASTRONOMY IN UKRAINE
4. 16:15-16:55 ***M.Ryabov*** (IRA NASU)
110-TH BIRTH ANNIVERSARY OF THE FAMOUS ASTROPHYSICIST AND POPULARIZER OF SCIENCE I.S.SHKLOVSKY, BORN IN UKRAINE

August 18 (10:00 – 13:00)

Zoom Meeting

<https://us02web.zoom.us/j/85991899192?pwd=H2EB7eYVaGwHZ4nhKlrDlyBprV5TWwr.1>

Meeting ID: 859 9189 9192

Passcode: 254048

PLENARY SESSION (Report – 40 min)

(Convener – ***B. S. Novosyadlyj***)

1. 10:00-10:40 ***Andrei Albert Mesinger*** (professor of the University of Catania, SNS, Italy)
TALK ABOUT THE UNIVERSE OF THE FIRST BILLION YEARS TO BE ANNOUNCED
2. 10:45-11:25 ***Hans Kristian Kamfjord Eriksen*** (professor, ITA, University of Oslo)
THREE DECADES OF COSMOLOGICAL GIBBS SAMPLING
3. 11:30-12:10 ***Duncan Watts*** (researcher, ITA (Institute of Theoretical Astrophysics at the University of Oslo (UiO), Norway)
COSMOGLOBE DR1 AND DR2: GLOBAL ANALYSIS OF THE MICROWAVE AND INFRARED SKY
4. 12:15-12:55 ***B.S.Novosyadlyj, Yu.A.Kulinich*** (LNU, Ukraine)
DISTORTION OF CMB BY DARK AGES INTERGALACTIC GAS AND HALOS

August 19 (10:00 – 13:00)

Zoom Meeting

<https://us02web.zoom.us/j/7278931881?pwd=8ojjDWftkk1SP8XVSYYEYvglBr4xQN.1>

Meeting ID: 727 893 1881

Passcode: 12345

PLENARY SESSION (Report – 40 min)

(Convener – ***I. L. Andronov***)

1. 10:00-10:40 ***Enrichetta Iodice*** (INAF–Astronomical Observatory of Capodimonte, Naples)
DIFFUSE LIGHT AROUND GALAXIES
2. 10:45-11:25 ***Elena Bannikova*** (INAF–Astronomical Observatory of Capodimonte, Naples; RI NANU, Kharkiv)
THE DOUBLE NUCLEUS OF THE ANDROMEDA GALAXY: A WINDOW INTO GALACTIC NUCLEAR DYNAMICS

3. 11:30-12:10 **A.Navarrini** (National Radioastronomical Observatory, USA)
THE ALMA BAND 6V2 RECEIVER: A NEW GENERATION OF
WIDEBAND MILLIMETER-WAVE RECEIVERS FOR THE ATACAMA
LARGE MILLIMETER/SUBMILLIMETER ARRAY
4. 12:15-12:55 **Nat Gopalswamy** (NASA Goddard Space Flight Center)
– LIST OF LARGE SOLAR ENERGETIC PARTICLE EVENTS FOR SPACE
WEATHER RESEARCH.
– SCOSTEP PROGRAM 2026 – 2030.

August 21 (14:00 – 18:00)

Zoom Meeting

<https://us02web.zoom.us/j/82301617430?pwd=uZoS3Ns4VWsMtpvhhbCRqbnfiRHU63V.1>

Meeting ID: 823 0161 7430

Passcode: 12345

PLENARY SESSION (Report – 40 min)

(Convener – **M. I. Ryabov**)

1. 14:00-14:40 **Nataliia Shchukina, Javier Trujillo Bueno, Ernest Alsina Ballester, Tanausú del Pino Alemán** (Main Astronomical Observatory, National Academy of Sciences, Kyiv, Ukraine; Instituto de Astrofísica de Canarias, E-38205 La Laguna, Tenerife, Spain)
MAGNETOMETRY OF THE SOLAR CORONA
2. 14:45-15:25 **J.Semkova** (Space Research and Technology Institute, Sofia, Bulgaria)
MULTISPACECRAFT OBSERVATIONS OF THE SPACE WEATHER AT MARS
3. 15:30-16:15 **Christian Stegmann** (Professor, Director in charge of Astroparticle Physics at DESY, Head DESY Zeuthen Site)
EXPLORING THE HIGH-ENERGY UNIVERSE: THE PRESENT AND FUTURE OF GAMMA-RAY ASTRONOMY WITH CTAO
4. 16:20-17:00 **I.L.Andronov** (ONMU, Ukraine)
50-TH ANNIVERSARY OF DISCOVERY OF MAGNETIC CATAclysmic VARIABLES-POLARS (AM HER – TYPE STARS)
5. 17:05-17:45 **Carlo Baccigalupi** (SISSA, the International School for Advanced Studies in Trieste, Italy)
FROM GAMOW'S VISION TO THE MULTI-PROBE UNIVERSE

Closing of the conference

GMIC – 26

SCHEDULE OF THE PLENARY AND SECTION SESSIONS

Data Section	17.08	18.08	19.08	20.08	21.08
Opening of the Conference and Plenary Session	10.00 – 13.00				
Plenary Session	14.00 – 17.00	10.00 – 13.00	10.00 – 13.00		14.00- 18.00
Section 1. Cosmology, gravitation, astroparticle physics, high energy physics		14.00 – 17.15			
Section 2. Astrophysics (Chair T.Mishenina)			14.00 – 18.00		
Section 3. Astrophysics (Chair I.Andronov)		14.00 – 18.00		09.30 – 11.30	
Section 4. Extragalactic astronomy and Astroinformatics		09.30 – 15.30			
Section 5. Solar System, Exoplanets and Near-Earth astronomy				09.30 – 19.20	
Section 6. Radio Astronomy				09.30 – 18.00	
Section 7. Sun, Solar activity and Astrobiology					09.30 – 13.30
Section 8. Biologic Section				10.00 – 17.15	
Subsection Astronomical Education and Outreach				11.30 – 13.00	
Subsection Planetariums in Ukraine					18.00 – 19.00

SECTION SESSIONS

August, 18 – 21

SECTIONS:

1. **Cosmology, gravitation, astroparticle physics, high energy physics** (Chair *A.I.Zhuk*)
August, 18 (14:00 – 17:15)
2. **Astrophysics: nucleosynthesis, stellar atmospheres, kinematics, structure and chemical evolution of the Galaxy** (Chair *T.V.Mishenina*)
August, 19 (14:00 – 18:00)
3. **Astrophysics: Interacting Binary Systems and Variable Stars** (Chair *I.L.Andronov*)
August, 18 (14:00 – 18:00), **August, 20** (09:30 – 11:30)
4. **Astrophysics: Extragalactic astronomy and Astroinformatics** (Chair *I.B.Vavilova*)
August, 18 (09:30 – 15:30)
5. **Solar System, Exoplanets and Near-Earth astronomy** (Chair *N.I.Koshkin*)
August, 20 (09:30 – 19:20)
6. **Radio Astronomy** (Chairs *O.M.Ulyanov, V.V.Dorovskyy*)
August, 20 (09:30 – 18:00)
7. **Sun, solar activity, solar-terrestrial relations and astrobiology**
(Chairs *V.M.Efimenko, M.I.Ryabov*)
August, 21 (09:30 – 13:30)
8. **Biologic section «The importance of G. Gamow's ideas for biology of the 21st century»**
(Chair *S.V.Chebota*)
August, 20 (10:00 – 17:15)
9. **Astronomical education and Astronomy Outreach** (Chair *I.L.Andronov*)
August, 20 (11:30 – 13:00)
10. **Popularization of Astronomy and Planetarium in Ukraine**
(Chairs *G.V.Zheleznyak, M.I.Ryabov*)
August, 21 (18:00 – 19:00)

Program and abstracts will be posted on the web page of the Conference:

www.gamow.odessa.ua

In case of problems with uploading abstract texts, please send them to

S.L.Strakhova: okioao26@gmail.com

For more details regarding the Conference, please contact us:

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Secretary: sedamelikk@gmail.com

Web-site: www.gamow.odessa.ua

SECTION SESSIONS

COSMOLOGY, GRAVITATION, ASTROPARTICLE PHYSICS, HIGH ENERGY PHYSICS

August, 18 (14:00 – 17:15)

Zoom Meeting

<https://us02web.zoom.us/j/7278931881?pwd=8ojjDWftkk1SP8XVSYYEYvglBr4xQN.1>

Meeting ID: 727 893 1881

Passcode: 12345

(Chair – **A. I. Zhuk**)

(15 minutes for the report)

1. 14:00-14:15 *Yu.Kulinich, B.Novosyadlyj* ON THE POSSIBILITY OF STEREOSCOPIC TOMOGRAPHY OF THE EARLY UNIVERSE USING MOLECULAR HYDROGEN LINES
2. 14:15-14:30 *Oleksii Nimchuk, Yurii Kulinich* CALCULATION OF CHEMICAL REACTION RATES AND MATTER IONIZATION RATES FROM DARK MATTER ANNIHILATION IN THE DARK AGES
3. 14:30-14:45 *Maksym Tsizh, Anton Rudakovskiy* PROBING COSMOLOGICAL PARAMETERS WITH TDA APPLIED TO 21CM LINE BRIGHTNESS FIELD FROM EPOCH OF REIONIZATION
4. 14:45-15:00 *B.Melekh, S.Chudyk, I.Koshmak* TWO APPROACHES TO MODELLING SPECTRAL ENERGY DISTRIBUTIONS OF DWARF GALAXIES DURING THE COSMIC DAWN
5. 15:00-15:15 *Ihor Koshmak* PRIMORDIAL HELIUM ABUNDANCE REDETERMINATION USING MULTICOMPONENT PHOTOIONIZATION MODELING OF HII REGIONS WITH STAR-FORMING REGION INSIDE
6. 15:15-15:30 *J.N.Rustamov, A.J.Rustamov* ON THE ORIGIN OF SPIRAL STRUCTURES IN GALAXIES
7. 15:30-15:45 *S.Apunevych* MINING THE DATA OF COSMOS2025 CATALOG
8. 15:45-16:00 *O.I.Gerasymov, L.S.Kudashkina* TOPOLOGICAL AND ENTROPIC ANALYSIS OF GRANULAR AND COSMIC FILAMENTARY STRUCTURES USING DIGITAL IMAGES
9. 16:00-16:15 *Andrew "AJ" Ensor* EFFECTIVE MAXWELL TYPE EQUATIONS FOR GRAVITATIONAL EXCITATIONS IN THE ENSOR GRAVITY SOURCE POSTULATION: DERIVATION, DIMENSIONAL ANALYSIS, AND TESTABLE PREDICTIONS
10. 16:15-16:30 *O.S.Stashko, V.I.Zhdanov, M.P.Hertzberg* STATIC SPHERICALLY SYMMETRIC CONFIGURATIONS OF GENERAL RELATIVITY: QUALITATIVE PROPERTIES OF SOLUTIONS WITH N SCALAR FIELDS
11. 16:30-16:45 *A.V.Tuqay, V.I.Zhdanov, Yu.V.Taistra* STABILITY OF SPHERICALLY SYMMETRIC RELATIVISTIC CONFIGURATIONS WITH POWER LAW SCALAR FIELD POTENTIAL
12. 16:45-17:00 *A.A.Uleiev, A.G.Magner, S.N.Fedotkin, S.P.Maydanyuk, A.Bonasera, H.Zheng, A.I.Levon, U.V.Grygoriev, T.Depastas* MACROSCOPIC SYMMETRY-BREAKING EFFECTS ON THE NEUTRON-STAR RADIUS DUE TO SLOW ROTATIONS
13. 17:00-17:15 *V.V.Kobychev* RARE, FORBIDDEN, AND EXOTIC ALPHA DECAYS

ASTROPHYSICS 1
(nucleosynthesis, stellar atmospheres, kinematics, structure
and chemical evolution of the galaxy)

August, 19 (14:00 – 18:00)

Zoom Meeting

<https://us02web.zoom.us/j/83892108959?pwd=SKFqVNzJePEcs8aan7ytGSBVZsB3yV.1>

Meeting ID: 838 9210 8959

Passcode: 739567

(Chair – T. V. Mishenina)

1. 14:00-14:15 *D.Dzikovskyi, M.Vavrukh* STRUCTURAL AND ENERGETIC CHARACTERISTICS OF FINITE-TEMPERATURE WHITE DWARFS
2. 14:15-14:30 *Ernst Paunzen* SYNTHETIC PHOTOMETRY USING GAIA BP/RP SPECTRA
3. 14:30-14:45 *Maryna Ishchenko* THE ROLE OF EARLY GLOBULAR CLUSTER DISSOLUTION IN ACCRETION PATHWAYS TO THE NUCLEAR STAR CLUSTER
4. 14:45-15:00 *Tahereh Ramezani* ULTRAVIOLET PHOTOMETRY AND REDDENING ESTIMATION OF 105 GALACTIC OPEN CLUSTERS
5. 15:00-15:15 *Lukas Kueß* CHEMICALLY PECULIAR STARS IN STAR FORMING REGIONS
6. 15:15-15:30 *A.M.Dmytrenko, P.N.Fedorov, V.S.Akhmetov, A.B.Velichko* LOCAL JEANS ESTIMATES OF THE MILKY WAY CIRCULAR VELOCITY BASED ON GAIA RGB STARS
7. 15:30-15:45 *K.O.Miroshnychenko, S.I.Denyshchenko, D.V.Odynets, V.P.Khramtsov, A.M.Dmytrenko, I.I.Kyrylenko* AUTOMATIC CLUSTERING OF KINEMATIC TRACERS OF SPIRAL STRUCTURES IN THE MILKY WAY BASED ON GAIA DR3 DATA
8. 15:45-16:00 *Anna Velichko* CHEMICAL PROPERTIES AND KINEMATICS OF GAS IN THE MILKY WAY TOWARDS THE PERSEUS ARM
9. 16:00-16:15 *D.Odynets, V.Akhmetov, S.Denyshchenko, P.Fedorov* BOTTTLINGER'S EQUATIONS FOR ESTIMATING THE DISTANCE TO THE GALACTIC CENTRE
10. 16:15-16:30 *M.S.Shevchenko, B.Ya.Melekh, O.Buhajenko* DETAILED PHOTO-IONIZATION ANALYSIS OF CHEMODYNAMICAL SIMULATION RESULTS FOR DWARF GALAXIES AT DIFFERENT EVOLUTIONARY STAGES
11. 16:45-17:00 *S.R.Rahimli N.A.Huseynov* PHOTOMETRIC OBSERVATIONS OF SEYFERT GALAXIES NGC 4151 AND NGC 3516
12. 17:00-17:15 *Z.A.Samedov, Z.F.Aliyeva, S.Sh.Rajabova* DETERMINATION OF THE ATMOSPHERIC PARAMETERS OF SEVERAL A-TYPE SPECTRAL CLASS STARS (II)
13. 17:15-17:30 *Demessinova Aizat, Yushchenko Alexander, Yushchenko Volodymyr, Jeong Yeuncheol, Rittipruk Pakakaew, Gopka Vira, Jeong Kyung Sook, Alimgazinova Nazgul, Omar Aruzhan* THE DEPENDENCE OF RELATIVE ELEMENTAL ABUNDANCES IN STELLAR ATMOSPHERES
14. 17:30-17:45 *T.Mishenina, L.Spina, T.Gorbaneva, T. Kurtukian Nieto, M. Pignatari* CHEMICAL SIGNATURES FROM SUPER-EARTHS TO SUPERMASSIVE COMPANIONS IN THEIR HOST STARS
15. 17:45-18:00 *Usenko I.A., Miroshnichenko A.S., Danford S., Turner D.G., Majaess D.J.* SPECTROSCOPIC STUDIES OF HOT FIELD STARS IN THE FIELD OF THE CEPHEID ZETA GEMINORUM

ASTROPHYSICS 2 (Interacting Binary Systems and Variable Stars)

August, 18 (14:00 – 18:40)

Zoom Meeting

<https://us04web.zoom.us/j/73651769430?pwd=bkRlSTNPRzZEUnpBWXU1TnExZ3RpQT09>

Meeting ID: 73651769430

Passcode: 4iQH5n

(Chair – **I. L. Andronov**)

1. 14:00-14:20 *Litvinov N.A., Vaidman N.L., Miroshnichenko A.S.*
TOWARD A COMPREHENSIVE O-C DIAGRAM OF SV VULPECULAE: 136 YEARS OF PHOTOMETRIC OBSERVATIONS
2. 14:20-14:40 *Maksym Pyatnytskyy*
SIX NEW VARIABLE STARS DISCOVERED FROM GROUND-BASED PHOTOMETRY AND CHARACTERIZED WITH TESS DATA
3. 14:40-15:00 *Marsakova V.I., Shugarov S.Yu., Kolesnikov S.V., Andronov I.L., Garbzhii-Romanchenko I.A.*
TESS AND GROUND-BASED BVR-PHOTOMETRY OF THE ECLIPSING BINARY V405 CEP
4. 15:00-15:20 *V.V.Breus, I.L.Andronov*
SPIN PERIOD VARIATIONS OF THE WHITE DWARF IN THE INTERMEDIATE POLARS V405 AUR, V2069 CYG, RX J2133.7+5107
5. 15:20-15:40 *Maksym Yu. Pyatnytskyy, Ivan L. Andronov*
V405 DRACONIS REVISITED: A THIRD COMPONENT AND NON-LINEAR O-C TRENDS
6. 15:40-16:00 *O.G.Sergienko, E.A.Panko*
O-C VARIATIONS OF V724 AQL FROM OBSERVATIONS AT THE KALINENKOV ASTRONOMICAL OBSERVATORY AND THE TESS ARCHIVE DATA
7. 16:00-16:20 *D.Rusanova, A.Simon, P.J.Mikolajczyk, L.Wyrzykowski, K.Kotysz, F.-J.Hambsch, W.Ogloza, N.Karaman, A.Korosko*
PHOTOMETRIC OBSERVATIONS OF SUPEROUTBURSTS IN THE DWARF NOVAE GAIA24AMV, GAIA19ATI, AND GAIA16ADJ
8. 16:20-16:40 *J.N.Rustamov, A.R.Iskandarova, U.J.Poladova*
SHORT-TERM PHOTOMETRIC VARIABILITY OF THE MASSIVE X-RAY BINARY HD 226868
9. 16:40-17:00 *Yurii Andriiv, Sergey Shugarov, Viktoriia Krushevska*
PRELIMINARY RESULTS OF UBVRI PHOTOMETRY OF THE DWARF NOVAE ASASSN-17PM
10. 17:00-17:20 *A.S.Bormotova, I.G.Slyusarev, V.G.Shevchenko*
THE NEW FLARING STAR GAIA DR3 28446770992650624
11. 17:20-17:40 *L.Keir, E.Panko, M.Pyatnytskyy*
AN ANALYSIS OF CHANGES IN THE LIGHT CURVES OF THE STAR FI SGE BASED ON OBSERVATIONS FROM THE TESS TELESCOPE
12. 17:40-18:00 *L.S.Kudashkina*
ARTIFICIAL INTELLIGENCE FOR RESIDUAL ANALYSIS AND PHYSICAL INTERPRETATION OF VARIABLE STAR LIGHT CURVES

August, 20 (09:30 – 11:30)

Zoom Meeting

<https://us04web.zoom.us/j/73651769430?pwd=bkRlSTNPRzZEUnpBWxU1TnExZ3RpQT09>

Meeting ID: 73651769430

Passcode: 4iQH5n

(Chair – **I. L. Andronov**)

1. 09:30-09:50 *D.Esenzholuly, N.L.Vaidman, A.S.Miroshnichenko*
REVISITING γ CASSIOPAEIAE WITH AN EXTENDED SPECTROSCOPIC
DATABASE AND REFINED METHODOLOGY
2. 09:50-10:10 *Shakhida T. Nurmakhametova, Nadezhda L. Vaidman, Anatoly S. Miroshnichenko*
REFINING EFFECTIVE TEMPERATURES OF BA SUPERGIANTS
3. 10:10-10:30 *Umirova Aziza Berikbayevna, Vaidman Nadezhda Leonidovna, Miroshnichenko Anatoliy Sergeevich*
INVESTIGATING THE BINARITY OF THE Be STARS 12 VUL, β PSC, AND PZ GEM
USING OPTICAL SPECTROSCOPY
4. 10:30-10:50 *Adigozalzade H.N., Bashirova U.Z., Ismailov N.Z.*
PROBING ACCRETION PROCESSES IN THE HERBIG STAR HD 141569A WITH A
DEBRIS DISK
5. 10:50-11:10 *L.S.Kudashkina*
ARTIFICIAL INTELLIGENCE AS A RESEARCH ASSISTANT IN VARIABLE STAR
ANALYSIS: CAPABILITIES, LIMITATIONS, AND HUMAN VALIDATION
6. 11:10-11:30 *Ivan L. Andronov*
ON THE 50TH ANNIVERSARY OF THE LOMB (1976) OVERSIMPLIFIED METHOD
OF PERIODOGRAM ANALYSIS

EXTRAGALACTIC ASTRONOMY AND ASTROINFORMATICS

August, 18 (09:30 – 15:30)

Zoom Meeting

<https://us02web.zoom.us/j/84115474202?pwd=UlhER0FmSUxEeStjTk5XVWRySUVIdz09>

Meeting ID: 841 1547 4202

Passcode: 597343

(Chair – I. B. Vavilova)

1. 09:30-09:50 V.Akhmetov, L.Filipello, M.Crosta, M.G.Lattanzi, B.Bucciarelli, U.Abbas, F.Santucci
SIMULATION OF LOW-FREQUENCY STOCHASTIC GRAVITATIONAL-WAVE
BACKGROUND FOR GAIA DR3 QSO OBJECTS
2. 09:50-10:10 V.Khramtsov, S.Denyshchenko, D.Odynets DATA-DRIVEN CHARACTERIZATION
OF GALACTIC SPIRAL STRUCTURE USING GAIA DR3 KINEMATIC TRACERS
3. 10:10-10:30 M.Berikashvili, B.Melesh, M.Shevchenko, O.Buhajenko FAST DIFFUSE IONIZING
RADIATION TRANSFER CALCULATIONS WITH THE DIFFRAY CODE
4. 10:30-10:50 Błażej Mrzygłód, Włodzimierz Godłowski LUMINOSITY FUNCTION OF GALAXY
CLUSTERS: A NEW VIEW BASED ON DATA FROM THE SLOAN DIGITAL SKY SURVEY
5. 10:50-11:10 D.R.Karakuts, I.B.Vavilova RECONSTRUCTING THE HIDDEN LARGE-SCALE
STRUCTURE OF THE UNIVERSE IN THE ZONE OF AVOIDANCE
6. 11:10-11:30 O.V. Kompaniets, I.B.Vavilova, Y.V.Vasylykivskyi, O.O.Konovalenko, O.S.Pastoven,
I.O.Izviekova, Junais, A.M.Dmytrenko, D.V.Dobrycheva, P.N.Fedorov, V.P.Khramtsov,
O.Sergijenko, A.A.Vasylenko NGC 3521 AS THE MILKY WAY NEAR TWIN: SPECTRAL
ENERGY DISTRIBUTION FROM UV TO RADIO DECAMETER RANGES
7. 11:30-11:50 Serhii Skolota, Elena Bannikova, Volodymyr Akhmetov, Peter Berczik, Massimo
Capaccioli, Maryna Ishchenko GLOBAL SLOW M = 1 MODE EMERGING IN A SELF-
GRAVITATING TORUS
8. 11:50-12:10 Eleni Bagui, Sebastien Clesse, Valerio De Luca, Jose Maria Ezquiaga, Gabriele
Franciolini, Juan García-Bellido, Cristian Joana, Rajeev Kumar Jain, Sachiko Kuroyanagi, Ilia
Musco, Theodoros Papanikolaou, Alvise Raccanelli, Sebastien Renaux-Petel, Antonio Riotto, Ester
Ruiz Morales, Marco Scalisi, Olga Sergijenko, Caner Unal, Vincent Vennin, David Wands
PRIMORDIAL BLACK HOLES: OBSERVATIONAL CONSTRAINTS AND
GRAVITATIONAL-WAVE SIGNATURES
9. 12:10-12:30 K.Parastiuk, A.Vasylenko BLAZAR S5 0716+714: INTERDAY VARIABILITY AND
COLOUR PROPERTIES BASED ON BVRI PHOTOMETRY
10. 12:30-12:50 Hetmantsev O.O., Dobrycheva D.V., Vavilova I.B., Kompaniets O.V., Shportko A.,
Guqin O. MULTIWAVELENGTH PROPERTIES AND ENVIRONMENT OF POLAR RING
GALAXY CANDIDATES
11. 12:50-13:10 Włodzimierz Godłowski, Błażej Mrzygłód NEW RESULTS OF THE
INVESTIGATION OF THE GALACTIC ALIGNMENT IN STRUCTURES
12. 13:10-13:30 D.Lavreniuk, F.Panko, S.Yemelianov ALIGNMENT OF GALAXIES IN CROSS-
LIKE SUBSTRUCTURES IN GALAXY CLUSTERS
13. 13:30-13:50 I.O.Izviekova, I.B.Vavilova, O.V.Kompaniets FROM OPTICAL VARIABILITY TO HOT-
DUST REVERBERATION IN THE ISOLATED NLSY1 GALAXIES MRK 42 AND MRK 493
14. 13:50-14:10 Kukhar O., Vavilova I., Kompaniets O., Dobrycheva D., Dmytrenko A., Fedorov P.,
Khramtsov V., Sergijenko O., Vasylenko A. ISOLATED GALAXIES AS THE MILKY WAY
ANALOGS
15. 14:10-14:30 M.Gromko, E. Panko, S. Yemelianov ADAPTING STRIPE 82 AND REDMAPPER
CLUSTER CATALOG DATA TO THE CLUSTER CARTOGRAPHY 2D+ TOOL INPUT FORMAT
16. 14:30-14:50 Iu.V.Babyk A COOL-CORE CLUSTER, ABELL 2107, WITH NO SIGNATURE OF
COOLING GAS
17. 14:50-15:10 K.Soroka, B.Ya.Melesh, O.Buhajenko A SAMPLE OF SPECTRA OF ACTIVELY
STAR-FORMING DWARF GALAXIES FROM THE SDSS SURVEY AND
MULTICOMPONENT PHOTOIONIZATION MODELLING
- 15:10-15:30 **Brief reports**
Tetyana Artemenko ASTROMETRIC RESEARCH AT UKRAINIAN OBSERVATORIES: ITS
ORIGINS AND TRANSFORMATION
Tetvana Artemenko THE VEGA-RAPROG-LOTSMAN PROGRAM: TO THE 40th
ANNIVERSARY OF THE HALLEY COMET INTERNATIONAL SPACE EXPERIMENT
S.Shatokhina, V.Andruk, I.Eglitis, O.Yizhakevych, L.Pakuliak SOME ASTEROID POSITIONS
FROM THE TAUTENBURG AND BALDONE DIGITIZED ASTROPLATE ARCHIVES
Kvzvurov Yu.V., Malovichko P.P., Fedorov Yu.I. COMPARATIVE ANALYSIS OF PLASMA
FLUCTUATIONS IN ACTIVE AND QUIET REGIONS OF THE LOWER SOLAR ATMOSPHERE

SOLAR SYSTEM, EXOPLANETS AND NEAR-EARTH ASTRONOMY

August, 20 (09:30 – 13:30, 14:00 – 19:20)

Zoom Meeting

<https://us02web.zoom.us/j/9341146289?pwd=2USr4YVjJBsCvDOr01NhMz91680o1d.1&omn=89547096038>

Meeting ID: 934 114 6289

Passcode: 665323

09:30 – 13:30 Section session (15 + 5 min)

(Convener – *N. Koshkin*)

1. 09:30-09:50 *S.Velichko, V.Korokhin, V.Kaydash, Yu.Shkuratov, Yu.Kuznyetsova*. PHOTOMETRIC ANALYSIS OF LUNAR REGOLITH IN IMP MACLEAR-1
2. 09:50-10:10 *Vadym Kaydash, Yehor Surkov, Yuriy Shkuratov*. LUNAR PHOTOMETRIC FUNCTION IN THE NEAR INFRARED TO ACCOUNT FOR THERMAL COMPONENT IN THE SPECTRA
3. 10:10-10:30 *D.A.Yerokhin, I.G.Slyusarev*. PHASE-MAGNITUDE DEPENDENCE OF HIGH-ALBEDO OUTLIERS IN PRIMITIVE ASTEROID FAMILIES
4. 10:30-10:50 *A.Aleksandrov, O.Golubov*. INTERPLAY BETWEEN COLLISIONS AND YORP EFFECT IN ASTEROID EVOLUTION
5. 10:50-11:10 *O.F.Khromiuk, I.H.Slyusarev*. SEARCH FOR EVIDENCE OF SPACE WEATHERING AMONG ASTEROID FAMILIES OF VARIOUS AGES
6. 11:10-11:30 *V.V.Rychahova, V.G.Kaydash, V.G.Shevchenko, I.N.Belskaya*. ENIGMATIC ORANGE MATERIAL PATCHES ON ASTEROID (4) VESTA
7. 11:30-11:50 *Hanna Okhotko, Volodymyr Troianskyi*. STATISTICAL ANALYSIS OF PHYSICAL PROPERTIES OF THE HOT POPULATION
8. 11:50-12:10 *Solovian K., Slyusarev I*. ROTATIONAL CHARACTERISTICS OF LARGE ASTEROID FAMILIES
9. 12:10-12:30 *Alona Mozgova, Alexandr Golubaev*. INTEGRATION OF RMS STATIONS INTO THE UKRAINIAN METEOR OBSERVATION NETWORK (UMON) AND THE GLOBAL METEOR NETWORK (GMN): INFRASTRUCTURE, METHODS AND THE FIRST SCIENTIFIC RESULTS
10. 12:30-12:50 *Ulviyye Poladova*. DEVELOPMENT OF A SPECIALIZED CATALOGUE OF COMETARY ACTIVITY: OUTBURSTS, FRAGMENTATION PROCESSES, AND SOLAR ACTIVITY RELATIONSHIPS
11. 12:50-13:10 *Leonid Shakun*. COMIMPOL SOFTWARE FOR ASSEMBLING A USER PIPELINE TO PROCESS IMAGE POLARIZATION OBSERVATIONS
12. 13:10-13:30 *Vidmachenko Anatoly, Kuznyetsova Yuliana*. CRYOVOLCANISM ON PLUTO

13:30 – 14:00 Lunch break

14:00 – 19:20 Section session (15 + 5 min)

(Convener – **V. Troianskyi**)

13. 14:00-14:20 *Zabit S. Farziyev*. SPECTROPHOTOMETRIC STUDY OF THE GIANT PLANETS
14. 14:20-14:40 *Zabit S. Farziyev*. METHANE (CH₄) ABSORPTION AROUND $\Lambda 6800 \text{ \AA}$ IN THE SPEKTRA OF THE PLANETS URANUS AND NEPTUNE
15. 14:40-15:00 *Ivan L. Andronov* PHENOMENOLOGICAL MATHEMATICAL MODELLING OF EXOPLANET TRANSITS
16. 15:00-15:20 *Vladyslav Andrukiv, Vladyslava Marsakova, Anastasiia Nahurna*. COMPARISON OF TRANSITING EXOPLANETS RADII ESTIMATED BY USING TRANSIT DEPTH AND TIME INTERVALS METHODS USING DATA FROM THE KEPLER MISSION
17. 15:20-15:40 *A.Pechko, E.Panko*. DETERMINATION OF TESS EXOPLANET PARAMETERS FROM UNISTELLAR EVSCOPE 2 OBSERVATIONS
18. 15:40-16:00 *V.Vasylchenko, A.Pechko, E.Panko, N.Myroshnyk*. GROUND-BASED VERIFICATION OF TESS TRANSIT EXOPLANET CANDIDATES WITH UNISTELLAR TELESCOPE DIGITAL PHOTOMETRY
19. 16:00-16:20 *Nansija Jotkus*. SPACE DEBRIS MITIGATION IN THE NEAR-EARTH ENVIRONMENT: ASSESSING THE EFFECTIVENESS OF INTERNATIONAL GUIDELINES AGAINST OBSERVED ORBITAL TRENDS
20. 16:20-16:40 *Kudak V.I., Perig V.M., Gomoni A.N.* RESIDENT SPACE OBJECTS LOTOS SERIES LIGHT CURVE SIMULATIONS

(Convener – **O. Bazyey**)

21. 16:40-17:00 *Koshkin N., Shakun L., Kozhkhov O., Briukhovetskyi O., Spinner R., Korobeinikova E., Strakhova S., Melikiant S., Kudak V.* MONITORING OF OPERATIONAL AND RETIRED SATELLITES OF THE STARLINK CONSTELLATION
22. 17:00-17:20 *L.Shakun, N.Koshkin, E.Korobeynikova, S.Melikyants, A.Ryabov, S.Strakhova*. DETERMINING TELESCOPE COORDINATES FROM ASTROMETRIC OBSERVATIONS OF LOW-EARTH-ORBIT ARTIFICIAL SATELLITES
23. 17:20-17:40 *Shpyrka L.Yu., Melekh B.Ya., Nogach R.T., Salnikov I.V., Soroka K.O.* NETWORK OF REMOTE OBSERVATION STATIONS
24. 17:40-18:00 *Volodymyr Troianskyi, Okhotko Hanna, Lishchynskyy Igor, Kamin Iryna*. MONITORING OF NEAR-EARTH SPACE AT THE OBSERVATORY ON PIP IVAN MOUNTAIN
25. 18:00-18:20 *Strautman Albin, Bazyey Alexandr*. ANALYTICAL MODEL OF SOLAR ILLUMINATION DURATION FOR NEAR-EARTH SATELLITES
26. 18:20-18:40 *V.Psaryov, Yu.Velikodsky, V.Konichek, I.Sinelnikov*. ANALYSIS OF THE CANON EOS CAMERAS CMOS SENSORS SENSITIVITY
27. 18:40-19:00 *Kolesnikov S.V., Zhukov V.V., Koshkin N.I., Samoylov A.B.* IMAGING POLARIMETER FOR OMT-800
28. 19:00-19:20 *Kolesnikov S.V.* ON THE POSSIBILITY OF USING CIVIL TWILIGHT TO CALIBRATE POLARIMETRIC MEASUREMENTS

RADIO ASTRONOMY

August, 20 (09:30 – 13:00, 14:00 – 18:00)

Zoom Meeting

<https://us05web.zoom.us/j/8892275801?pwd=w3Dt6XRCy9aKPxno4JztPDicWEZUT.1&omn=82262056316>

Meeting id: 889 227 5801

Passcode: a3YZ6z

(Chairs – **O. M. Ulyanov, V. V. Dorovskyy**)

1. 09:30-09:45 V.O.Shepelev, R.V.Vashchishyn, O.O.Litvinenko, A.B.Loizinsky, G.S.Podgorny
STUDY OF CSS RADIO SOURCES AT DECAMETER WAVELENGTHS USING THE
URAN INTERFEROMETERS
2. 09:50-10:05 V.O.Shepelev, O.O.Litvinenko METHOD OF MULTI-ANTENNA STUDY OF
RADIO SOURCE SCINTILLATIONS IN THE URAN INTERFEROMETER NETWORK
3. 10:10-10:25 Y.O.Khmelevska, Y.V.Vasylkivskiy, O.O.Konovalenko, A.I.Brazhenko,
A.V.Frantsuzenko INITIAL RESULTS OF A WIDEBAND DECAMETER SURVEY OF
THE GALACTIC BACKGROUND WITH THE URAN-2 RADIO TELESCOPE
4. 10:30-10:45 O.O.Konovalenko, Y.V.Vasylkivskiy, Y.O.Khmelevska, V.V.Zakharenko,
O.M.Ulyanov, I.M.Bubnov, A.A.Stanislavsky, P.L.Tokarsky, A.I.Brazhenko, R.V.Vashchishyn,
A.V.Frantsuzenko, S.M.Yerin, M.V.Shevchuk, O.M.Reznichenko, I.P.Kravtsov, S.V.Stepkin,
M.A.Sydorchuk, A.P.Miroshnichenko THE PLANNED MULTI-ANTENNA
COMPREHENSIVE SURVEY OF THE NORTHERN SKY ("UNIVER SURVEY"): FIRST
RESULTS OF THE PILOT SURVEY WITH THE URAN-2 RADIO TELESCOPE
5. 10:50-11:05 Y.V.Vasylkivskiy, O.O.Konovalenko, S.V.Stepkin, Y.O.Khmelevska,
A.I.Brazhenko, A.V.Frantsuzenko STUDY OF RADIO ABSORPTION FEATURES
DETECTED IN NORTHERN SKY SURVEYS AT 0° DECLINATION USING THE UTR-
2 AND URAN-2 RADIO TELESCOPES
6. 11:10-11:25 V.N.Melnik, V.V.Dorovskyy SINGLE TYPE III BURSTS AS A DIAGNOSTIC
INSTRUMENT OF SOLAR CORONA

11:30-11:45 Coffee break

7. 11:45-12:00 Shevchuk M., Bubnov I., Dorovskyy V., Melnik V., Pavlichenko U.,
Konovalenko A., Yerin S. IDENTIFICATION OF CORONAL ALFVÉN WAVES IN
GURT RADIO TELESCOPE DATA
8. 12:05-12:20 Shevchuk M., Pavlichenko U., Dorovskyy V., Melnik V., Konovalenko A.
DIAGNOSTICS OF PLASMA PARAMETERS INSIDE AND OUTSIDE THE CME
CORE USING DECAMETER SPIKES
9. 12:25-12:40 Dmytro Shulga, Valeriy Myshenko, Aleksey Korolev, Vyacheslav Zakharenko,
Dmytro Chechotkin IMPACT OF COMBAT OPERATIONS IN UKRAINE ON THE
ECOLOGY OF THE EARTH'S NORTHERN HEMISPHERE BASED ON MONITORING
OF MESOSPHERIC CARBON MONOXIDE (CO)
10. 12:45-13:00 Ya.M.Soboliev RADIATION OF ULTRARELATIVISTIC ELECTRONS
MOVING IN CURVED MAGNETIC FIELD LINES: SYNCHRO-CURVATURE
RADIATION
11. 13:05-13:20 A.A.Stanislavsky, I.M.Bubnov, L.A.Stanislavsky, P.Zarka, A.Loh, C.Viou,
R.V.Vaschishyn, D.Yu.Katsai DECADAL FLUX DENSITY STABILITY AND
MAGNETOHYDRODYNAMIC EQUILIBRIUM IN THE SUPERNOVA REMNANT IC
443: NEW INSIGHTS FROM NENUFAR

13:25-14:30 **Lunch**

12. 14:30-14:45 *A.A.Stanislavsky, I.M.Bubnov, L.A.Stanislavsky, P.Zarka, A.Loh, C.Viou, R.V.Vaschishyn, A.V.Frantsuzenko, D.Yu.Katsai* COORDINATED LOW-FREQUENCY OBSERVATIONS OF CASSIOPEIA A AND SCINTILLATION DIAGNOSTICS
13. 14:50-15:05 *O.Shymbarova, D.Zabora, M.Ryabov, A.Sukharev, V. Dubovenko* DIGITAL ARCHIVE OF HISTORICAL ANALOG OBSERVATIONS FROM THE RT URAN-4 (IRA NASU) OF POWERFUL RADIO SOURCES DURING SC 22 (1987-1993)
14. 15:10-15:25 *A.L.Sukharev, Ye.Strakhov, E.Hromov, D.Zhykul, M.I.Orlyuk, M.I.Ryabov, D.Zabora, V.Derevyagin, O.Litvinenko* SOFTWARE TOOLS FOR THE AUTOMATED ANALYSIS OF IONOSPHERIC SCINTILLATION OF COSMIC RADIO SOURCES FROM URAN-4 RADIO-TELESCOPE OBSERVATIONS AND GEOMAGNETIC VARIATIONS FROM THE “INTERMAGNET” NETWORK DURING GEOMAGNETIC STORMS
15. 15:30-15:45 *A.L.Sukharev, M.I.Orlyuk, M.I.Ryabov, A.A.Romenets, Yu.Sumaruk, V.I.Kashuba, V.Bezrukovs, J.Steinbergs, A.Orbidans, V.Derevyagin, O.Litvinenko* CHARACTERISTICS OF COSMIC-RADIO-SOURCE SCINTILLATIONS DURING GEOMAGNETIC STORMS BASED ON DECAMETER-BAND IONOSPHERIC PROBING OBSERVATIONS FROM THE LOFAR LV614 TELESCOPE (IRBENE, LATVIA) AND URAN-4 (ODESA, UKRAINE)
16. 15:50-16:05 *D.A.Zabora, A.L.Sukharev, M.I.Ryabov, O.O.Shymbarova* UNUSUAL FLARING ACTIVITY IN ACTIVE GALACTIC NUCLEI: LINKING RADIO-MORPHOLOGY AND LIGHT CURVES OF BBH CANDIDATES
17. 16:10-16:25 *A.P.Miroshnichenko* SIMILAR CHARACTERISTICS OF OPTICALLY UNIDENTIFIED AND IDENTIFIED RADIO SOURCES WITH STEEP LOW-FREQUENCY SPECTRA
18. 16:30-16:45 *N.O.Tsyk* ON THE MECHANISMS OF FORMATION OF RADIO STORMS AND DAM RADIO BURSTS IN THE JUPITER'S MAGNETOSPHERE
19. 16:50-17:05 *O.O.Lytvynenko* THE EFFECTS OF REGIONAL SEISMIC ACTIVITY ON THE SCINTILLATION CHARACTERISTICS OF COSMIC RADIO SOURCES IN THE DECAMETER WAVELENGTH RANGE
20. 17:10-17:25 *V.V.Orlov, O.O.Lytvynenko, V.G.Dereviahin, V.V.Yasinsky* ALGORITHMS FOR PROCESSING LOW-FREQUENCY RADIO ASTRONOMICAL SIGNALS UNDER CONDITIONS OF SHORT-TERM INTERFERENCE

17:30-18:00 **Discussion**

SUN, SOLAR ACTIVITY, SOLAR-TERRESTRIAL RELATIONS AND ASTROBIOLOGY

August, 21 (09:30 – 13:30)

Zoom Meeting

<https://us05web.zoom.us/j/8892275801?pwd=w3Dt6XRCy9aKPkxno4JztPDicWEZUT.1&omn=82135040946>

Meeting id: 889 227 5801

Passcode: a3YZ6z

09:30-13:00 Section session (15 min)

(Chairs – V. M. Efimenko, M. I. Ryabov)

1. 09:30-09:45 *S.E.Dobrovolsky, V.G.Loizitsky, V.A.Sheminova* MAGNETIC FIELD DIAGNOSTICS IN A SUNSPOT USING DIGITAL SPECTRAL-POLARIZATION OBSERVATIONS OF METAL LINES
2. 09:45-10:00 *V.Efimenko, V.Loizitsky* ON THE POSSIBLE INFLUENCE OF SOLAR ACTIVITY ON THE OCCURRENCE OF ANOMALOUS WEATHER PHENOMENA
3. 10:00-10:15 *M.A.Hromov, I.I.Yakovkin, V.G.Loizitsky* CHROMOSPHERIC MAGNETIC FIELD DIAGNOSTICS IN A SUNSPOT USING THE H- α LINE BISECTORS
4. 10:15-10:30 *N.N.Kondrashova, M.N.Pasechnik* STRANGE SOLAR ACTIVE REGION NOAA 14478
5. 10:30-10:45 *Roman Kostyk* THE ROLE OF FLARES IN HEATING THE SOLAR CHROMOSPHERE AND CORONA
6. 10:45-11:00 *Krivodubskij Valery* TURBULENT DYNAMO OF SOLAR MAGNETIC CYCLE
7. 11:00-11:15 *M.Lobodenko, L.Kozak, C.Cockell* SPECTRAL ANALYSIS AND FORWARD MODELING OF TERRESTRIAL EXOPLANETS AND MINI-NEPTUNES USING THE TAUREX 3 FRAMEWORK
8. 11:10-11:30 *Osipov S.N., Pasechnik M.N., Kondrashova N.N.* FEATURES OF THE LOWER SOLAR ATMOSPHERE DYNAMICS DURING A POWERFUL X2.3-CLASS FLARE
9. 11:30-11:45 *A.L.Sukharev, M.I.Orlyuk, M.I.Ryabov, I.Usoskin, A.Kero, A.Romenets, Yu.Sumaruk, V.I.Kashuba, V.Bezrukovs, J.Steinbergs, A.Orbidans, O.Wucknitz, V.Derevyagin, O.Litvinenko* DIAGNOSTICS OF SOLAR ECLIPSES AS MANIFESTATIONS OF SPACE WEATHER EFFECTS BASED ON IONOSPHERIC SCINTILLATIONS OF COSMIC RADIO SOURCES AND GEOMAGNETIC FIELD VARIATIONS RECORDED BY THE INTERNATIONAL MAGNETOMETER NETWORK
10. 11:45-12:00 *M.Ryabov, A.Sukharev, V.Bezrukovs, D.Bezrukovs* THE ROLE OF N-S ASYMMETRY AND ACTIVITY COMPLEXES IN THE MANIFESTATION OF FLARE ACTIVITY OF THE 25TH CYCLE
11. 12:00-12:15 *D.A.Zabora, O.O.Shymbarova, M.I.Ryabov, A.L.Sukharev* OCTOBER 1989 GEOMAGNETIC SUPERSTORM: REVITALIZING ARCHIVAL URAN-4 (IRA NASU) ANALOG MONITORING
12. 12:15-12:30 *Dmitrijs Bezrukovs, Vladislavs Bezrukovs* MICROWAVE SPECTRAL POLARIMETRIC OBSERVATIONS OF THE SUN IN LATVIA
13. 12:30-12:45 *Vladislavs Bezrukovs* VIRAC INTERNATIONAL COLLABORATIONS IN SOLAR AND SPACE WEATHER RESEARCH: FROM SOLAR RADIO OBSERVATIONS TO IONOSPHERIC MONITORING
14. 12:45-13:00 *Jānis Steinbergs, Dmitrii Kolotkov, Vladislavs Bezrukovs, Jānis Kaminskis* CATALOGUE OF SOLAR RADIO BURSTS DETECTED BY THE LOFAR LV614 STATION AT THE IRBENE OBSERVATORY DURING SOLAR CYCLE 25
15. 13:00-13:15 *Mykhailo Orlyuk, Valentyn Maksymchuk, Andrii Romenets, Yuri Sumaruk, Andrii Marchenko, Oleksandr Ruzhynski* MONITORING OF THE GEOMAGNETIC FIELD IN UKRAINE
16. 13:15-13:30 *Mykhailo Orlyuk, Andrii Romenets, Dmytro Green, Svetlana Boichenko* THE RELATIONSHIP BETWEEN THE EARTH'S MAGNETIC FIELD, SEISMICITY, AND TEMPERATURE WITH ITS ROTATIONAL MODE

ASTRONOMICAL EDUCATION AND ASTRONOMY OUTREACH

August, 20 (11:30 – 13:00)

Zoom Meeting

<https://us04web.zoom.us/j/73651769430?pwd=bkRlSTNPRzZEUnpBWXU1TnExZ3RpQT09>

Meeting ID: 73651769430

Passcode: 4iQH5n

(Chair – I. L. Andronov)

1. 11:30-11:50 *Svitlana Malchenko*
INNOVATIVE TEACHING TOOLS FOR ASTRONOMY IN SCHOOLS AND HIGHER EDUCATION INSTITUTIONS
2. 11:50-12:10 *Maksym Pyatnytsky*
OPEN-SOURCE SOFTWARE TOOLS FOR PERIODOGRAM ANALYSIS AND PHOTOMETRIC DATA PROCESSING
3. 12:10-12:40 *Ivan L. Andronov*
PROFESSIONAL-AMATEUR (PRO-AM) ASTRONOMY. STATISTICALLY OPTIMAL MODELING OF ASTRONOMICAL SIGNALS WITH GENERALLY UNEVENLY SPACED ARGUMENTS"
4. 12:40-13:00 *Ivan L. Andronov*
INTRODUCTORY STATISTICS FOR ASTRONOMERS AND NOT ONLY/ A TEXTBOOK

POPULARIZATION OF ASTRONOMY AND PLANETARIUM IN UKRAINE

August, 21 (18:00-19:00)

Zoom Meeting

<https://us05web.zoom.us/j/8892275801?pwd=w3Dt6XRCy9aKPkxno4JztPDicWEZUT.1&omn=84588880747>

Meeting id: 889 227 5801

Passcode: a3YZ6z

(Chairs – G. V. Zheleznyak, M. I. Ryabov)

Bazyey O. THE UNIVERSALISM OF KEPLER'S SCIENTIFIC LEGACY: LAWS OF
MOTION, OPTICS, AND TIDAL THEORY

**18:20-19:00 Speeches and Discussion representatives of Planetariums and astronomical
museums**

BIOLOGIC SECTION
“THE IMPORTANCE OF G. GAMOW'S IDEAS FOR BIOLOGY OF THE
21ST CENTURY”

20 August 2026 (Thursday) Kyiv time (UTC+3)

Zoom Meeting

<https://us05web.zoom.us/j/2719689610?pwd=SzY2dzBZVEZCYi9tNy9Wbks5SHFrZz09&omn=88916604185>

Passcode: 3101

10:00-17:15 **Section session** (20 or 15 min for report and 5 min for discussion)

(Convener – **S.V. Chebotar**)

10.00-10.10 **OPENING OF THE BIOLOGICAL SESSION** *S.Chebotar*

10.10-10.30 **C. W. Hertig**, *M. P. Rajendran, M. M. Hasan, N. E. Mathew, B. Rezaeva, P. Satpathy, J. Kumlehn* (Plant Reproductive Biology, Leibniz Institute of Plant Genetics and Crop Plant Research (IPK) Gatersleben, Seeland, Germany) **EXPANDING THE BREEDERS' TOOL SET FOR GENOME EDITING IN BARLEY AND OILSEED RAPE**

10.35-10.55 **R. E. Hoffie**¹, *A. Habekuss*³, *D. Perovic*³, *I. Hoffie*², *I. Otto*², *S. K. Nimmalagottu*¹, *H. Hecht*¹, *J. Kumlehn*² (¹Biotechnology and Genome Editing, Leibniz Institute of Plant Genetics and Crop Plant Research (IPK), Gatersleben, Germany; ²Plant Reproductive Biology, Leibniz Institute of Plant Genetics and Crop Plant Research (IPK), Gatersleben, Germany; ³Institute for Resistance Research and Stress Tolerance, Julius Kuehn Institute (JKI), Federal Research Centre for Cultivated Plants, Quedlinburg, Germany) **OVERCOMING BOUNDARIES OF GENOME EDITING: LESSONS FROM ENGINEERING VIRUS RESISTANCE IN BARLEY**

11.00-11.20 **G. Caccialupi**¹, *J. Milc*¹, *L. Cicala*¹, *F. Caradonia*¹, *T. Akar*², *M. Dahn*³, *E. J. Stockinger*³, *N. Pecchioni*¹ and *E. Francia*¹ (¹Department of Life Sciences, Centre BIOGEST – SITEIA, University of Modena, and Reggio Emilia, Italy; ²Mugla University Faculty of Agriculture Dept. of Agronomy, Fethiye /Mugla, Turkey; ³Department of Horticulture and Crop Science, The Ohio State University, Wooster, OH 44691, USA; ⁴Council for Agricultural Research and Economics, Research Centre for Cereal and Industrial Crops (CREA-CI), Foggia, Italy) **COLD ACCLIMATION AND VERNALIZATION IN BARLEY: TWO PATHWAYS OR ONE ADAPTIVE STRATEGY?**

11.25-11.45 **P. Borbély**¹, *Z. Tahmasebi*^{1,2}, *Z. Gulyás*¹, *Z. Farkas*¹, *D. Tarkowska*³, *A. Börner*⁴, *T. Pálmai*¹, *K. Benczúr*¹, *G. Galiba*¹, *M. Ahres*¹ (¹Agricultural Institute, Centre for Agricultural Research, Martonvásár, Hungary; ²Doctoral School of Agricultural and Food Sciences, Hungarian University of Agricultural and Life Sciences, Keszthely H-8360, Hungary; ³Laboratory of Growth Regulators, Faculty of Science, Palacký University Olomouc and Institute of Experimental Botany, the Czech Academy of Sciences, Olomouc, Czech Republic; ⁴Leibnitz Institute of Plant Genetics and Crop Plant Research, Seeland, Germany) **LIGHT-MEDIATED REGULATION OF FREEZING TOLERANCE IN CEREALS**

11.50-12.00 Coffee break

12.00 -12.20 **M. Nowak**^{1,2}, *J. Giera*², *J. Leśniowska-Nowak*¹, *K. Kowalczyk*¹ (¹ Institute of Plant Genetics, Breeding and Biotechnology, University of Life Sciences in Lublin, Poland, Akademicka St. 15, 20-950 Lublin; ² Plant Phenomics Centre, University of Life Sciences in Lublin, Lublin, Poland) **HIGH-THROUGHPUT DIGITAL IMAGING OF THE PHENOTYPIC RESPONSE OF COMMON WHEAT (TRITICUM AESTIVUM L.) TO DROUGHT STRESS**

12.25-12.40 **D. Zharikova**¹, *Ch. J. Barnes*^{1,2} (¹Department of Agroecology, Flakkebjerg, Aarhus University, Denmark; ²Center for Evolutionary Hologenomics, The Globe Institute, The

University of Copenhagen, Denmark) POPULATION HISTORY SHAPES DROUGHT-RESPONSIVE DNA METHYLATION IN BRACHYPODIUM DISTACHYON

12.45 -13.05 **I. Mitina**, A. Deaghileva, V. Mitin, C. Grajdieru, L. Tumanova (Institute of Genetics, Physiology and Plant Protection, Moldova State University, Chisinau, Moldova) A THREE-DOMAIN ASSESSMENT OF SOIL MICROBIOME UNDER PERENNIAL VITICULTURE AND ROTATIONAL ANNUAL CROPPING REGIMES

13.10-13.30 **T. Kalachova**¹, V. Psota², R. Thibert¹, O. Bondarenko^{2,3}, N. Korniienko^{2,3}, A. Kharina³, N. Zrellov⁴, J. Dušek², B. Jindřichová², A. Antonova², L. Burketová² (¹ Institute of Experimental Botany of the Czech Academy of Sciences, Prague, Czech Republic; ² Farma Bezdinek s.r.o., Dolni Lutyne, Czech Republic; ³ Educational and Scientific Center (ESC) “Institute of Biology and Medicine”, Taras Shevchenko National University of Kyiv, Kyiv, Ukraine; ⁴ Latvian Biomedical Research and Study Centre, Rīga, Latvia) FROM FIELD TO THE LAB AND BACK: ISOLATION AND CHARACTERIZATION OF BACTERIOPHAGES FOR PLANT PROTECTION AGAINST BACTERIAL DISEASES

13.30-14.30 Lunch

14.30-14.45 **K. Bahriichuk**, B. Ostash (Department of Genetics and Biotechnology, Ivan Franko National University of Lviv, Lviv, Ukraine) CONJUGATIVE TRANSFER OF BIOSYNTHETIC GENE CLUSTERS BETWEEN STREPTOMYCES ALBIDOFLOAVUS J1074 STRAINS

14.50-15.05 **Stepanyshyn A.**, Chyzh A., Yushchuk O. (Department of Genetics and Biotechnology, Ivan Franko National University of Lviv, Lviv, Ukraine) CREATING A KNOCKOUT VECTOR FOR THE DELETION OF ACTE1_RS07735 GENE IN TEICOPLANIN PRODUCER ACTINOPLANES TEICHOMYCETICUS ATCC 31121

15.10-15.25 **Vedybida O.**, Deneka M., Yushchuk O. (Department of Genetics and Biotechnology, Ivan Franko National University of Lviv, Lviv, Ukraine) IMPACT OF INCREASING BLDA GENE COPY NUMBER ON A47934 PRODUCTION IN STREPTOMYCES TOYOCAENSIS NRRL 15009

15.30-15.45 **V. Rudenko**¹, Ye. Smirnova¹, A. Barkhatova¹, Ch. Rücket-Reed², T. Busche², J. Kalinowski², Y. Mast³, O. Yushchuk¹ (¹ Department of Genetics and Biotechnology, Ivan Franko National University of Lviv, Lviv, Ukraine; ² Microbial Genomics and Biotechnology, Center for Biotechnology, Bielefeld University, Bielefeld, Germany; ³ Department Bioresources for Bioeconomy and Health Research, Leibniz Institute DSMZ – German Collection of Microorganisms and Cell Cultures, Braunschweig, Germany) INVESTIGATING THE GENOMIC CAUSALITY OF THE BLD-LIKE PHENOTYPE IN UMEZAWAEA ENDOPHYTICA DSM 103496

15.50-16.00 Coffee break

16.00-16.15 **V. Rudik**¹, S. Chebotar^{1,2} (¹ Department of Molecular Biology, Biochemistry and Genetics, Odesa I.I. Mechnikov National University, Odesa, Ukraine; ² Plant Breeding and Genetics Institute – National Center of Seed and Cultivar Investigation, Odesa, Ukraine) RESULTS OF MOLECULAR IDENTIFICATION OF SPECIES OF THE ANOPHELES MACULIPENNIS S.L. COMPLEX IN ODESA REGION

16.20-16.35 **A. Mykhailenko**^{1,2}, K. Nadachowska-Brzyska¹, P. Zieliński¹ (¹ Institute of Environmental Sciences, Faculty of Biology, Jagiellonian University, Kraków, Poland; ² Oakland University, Rochester, Michigan, USA) COMPLEX GENOMIC LANDSCAPE OF EUROPE'S MOST DESTRUCTIVE FOREST PEST

16.40-16.50 **Yu. Mediukh**, I. Panchuk (Yuriy Fedkovych Chernivtsi National University, Chernivtsi, Ukraine) TAGMA- AND DEVELOPMENTAL STAGE-DEPENDENT EXPRESSION OF ANTIOXIDANT DEFENSE GENES IN THE HONEY BEE (APIS MELLIFERA)

16.55 -17.15 CLOSING OF THE BIOLOGICAL SESSION