

22nd Gamow International Astronomical Conference:  
“ASTRONOMY AND BEYOND: ASTROPHYSICS,  
COSMOLOGY AND GRAVITATION, ASTROPARTICLE  
PHYSICS, RADIOASTRONOMY AND ASTROBIOLOGY”

August 22 – 26, 2022  
Odessa, Ukraine

Second announcement



Organizers: Odessa I.I.Mechnikov National University (Astronomical Observatory, Department of Physics and Astronomy of the Faculty of Mathematics, Physics and Information Technologies, Department Genetics and Molecular Biology of Biology Faculty), Radio-Astronomical Institute of NASU, Ukrainian Astronomical Association (UAA), Odessa National Maritime University, Odessa Astronomical Society.

SCIENTIFIC ORGANIZING COMMITTEE:

Chairs of SOC: V.M. Shulga (IRA NASU, Kharkiv)

Vice-chair: M.I. Ryabov (IRA NASU, Odessa)

Secretary: S.M. Melikyants (ONU, Odessa)

Members of SOC: V.M.Adamyan (ONU, Odessa), S.M.Andrievsky (ONU, Odessa, Institute of Astronomy and Astrophysics, Tuebingen University, Germany), I.L.Andronov (ONMU, Odessa), M.Capaccioli (Naples University,

Italy), S.V.Chebotar (ONU, Odessa), L.L.Jenkovszky (ITP, Kyiv), K.Georgieva (Space Research and Technologies Institute, Sofia, Bulgaria), N.I.Koshkin (ONU, Odessa), I.Kudzej (Vihorlat observatory Humenne, Slovakia) T.V Mishenina (ONU, Odessa), I.Shmeld (VIRAC, Latvia), S.Silich (INAOE, Puebla, Mexico), O.M.Ulyanov (IRA NASU, Kharkiv) , I.B.Vavilova (MAO NASU, Kyiv), Y.S.Yatskiv (MAO NASU, Kyiv), V.V Zakharenko (IRA NASU, Kharkiv), A.I.Zhuk (ONU, Odessa; CASUS, Germany).

## LOCAL ORGANIZING COMMITTEE

Chair of LOC: V.I. Truba (Rector of ONU)

Vice-chairs of LOC: M.I. Ryabov (IRA NASU, Odessa),

Secretary: A.A Pilipenko (IRA NASU, Odessa)

Members of LOC: V.V. Breus, A.Yu. Burgazli, A.V. Dragunova, V.G. Komentant, N.I. Koshkin, L.S. Kudashkina, S.M. Melikyants, L.I. Sobitnyak, S.L. Strakhova, A.L. Sukharev, V.O. Yushchenko.

The 22nd Gamow conference is devoted to:

- the 115th anniversary of Prof. V.P. Tsesevich (Director of the Astronomical Observatory of Odessa I.I. Mechnikov State University in 1944 – 1983 years);
- the 90th anniversary of the registration by K. Jansky of cosmic radio emission and of the beginning of the radio astronomy era;
- 100th anniversary of the A.A. Friedmann's model of the nonstationary universe;
- 30th anniversary of the Odessa Astronomical Society.

### **Scientific topics:**

cosmology, gravitation, astroparticle physics, high energy physics, astrophysics, plasma astrophysics, radio astronomy, solar activity and solar-terrestrial relations, solar system, astrobiology.

The Conference will be organized in the form of on-line sessions. Conference participants will be provided with zoom links to all sessions in advance.

### **August 22**

10.00 – 13.30            Opening of the conference,  
                                 Greeting talks and Memorial reports

### **August 23**

10.00 – 15.00            Plenary session

16.00 – 18.00            UAA

**August 22 – 26**      Section session

The Memorial and Plenary sessions consist of 30-minute reports.  
Section meetings will be held in the form of 15-minute reports.

Sections:

1. Cosmology, gravitation, astroparticle physics, high energy physics  
(Chair – *A.I. Zhuk*)      August 22 (14.00 – 19.00)
2. Astrophysics (Chair – *I.L.Andronov, T.V.Mishenina*)  
August 22 (14.00 – 19.00)
3. Solar system and space environment (Chair – *N.I.Koshkin*)  
August 24 (10.00 – 17.00)
4. Sun, Solar activity, Solar-terrestrial relations and Astrobiology  
(Chair – *M.I.Ryabov*); August 25 (09.30 – 13.40)
5. Biologic section “Gamow's ideas in 21st century biology” (Chair –  
*S.V.Chebotar*); August 25 (10.00 – 17.00)
6. Radioastronomy (Chair – *O.M.Ulyanov, O.A.Litvinenko*)  
August 26 (09.30 – 13.30).

Program and abstracts are on the web page of the Conference:

[www.gamow.odessa.ua](http://www.gamow.odessa.ua)

**Publications:**

Scientific articles based on plenary and section reports are welcome for publication in the journal «Odessa Astronomical Publications» (<http://oap.onu.edu.ua/>). The next issue will be published this year, the deadline for submission is September 30. We also plan to publish reports on radio astronomy in «Radioastronomy and Radiophysics» in this year.

The language of the conference is English on memorial and plenary sessions and English and Ukrainian on sections session.

For more details regarding the Conference, please contact us:

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E-mails:

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