

17-th Gamow Summer School
“ASTRONOMY AND BEYOND: ASTROPHYSICS,
COSMOLOGY, COSMOMICROPHYSICS,
ASTROPARTICLE PHYSICS, RADIOASTRONOMY
AND ASTROBIOLOGY”

August 13-20, 2017, Odessa, Ukraine

AGENDA

SECTIONS:

- 1. Cosmology, gravitation, high energy physics, astroparticle physics**
(Conveners A.I.Zhuk , B.S. Novosyadly) **August, 14-15**
- 2. Astrophysics (stellar atmospheres, interacting binary systems, variable stars)**
(Conveners I.L.Andronov, T.V.Mishenina) **August, 14**
Subsection «Astroinformatics»
(Convener I.B.Vavilova) **August, 15**
- 3. Radioastronomy**
(Conveners O.A.Litvinenko, O.M.Ulyanov) **August, 16-17**
- 4. Solar activity, solar-terrestrial relations, astrobiology**
(Conveners V.M.Efimenko, M.I.Ryabov) **August, 18**
- 5. Solar system, Near-Earth Space**
(Convener N.I.Koshkin) **August, 16-17**

SCHEDULE OF THE PLENARY AND SECTION SESSIONS

Plenary sessions (August, 14–18):

9:30 – 13:00 *Conference Hall «Grand Marine»*

Section sessions (August, 14–18):

Conference Rooms of the Sports and Recreation Centre "Chernomorka"

Data Section	14.08	15.08	16.08	17.08	18.08
Section 1. Cosmology, gravitation, astroparticle physics, high energy physics	14:30–18:10 Conference Room (1 floor)	14:30–18:10 Conference Room (2 floor)			
Section 2. Astrophysics	14:30–18:10 Conference Room (2 floor)				
Subsection "Astroinformatics"		14:30–18:10 Conference Room (1 floor)			
Section 3. Radio-astronomy			14:30–18:10 Conference room (2 floor)	14:30–18:10 Conference room (1 floor)	
Section 4. Solar activity, Solar-Terrestrial relations, Astrobiology					14:30–18:10 Conference room (2 floor)
Section 5. Solar system, Near-Earth Space			14:30–18:10 Conference Room (1 floor)	14:30–18:10 Conference Room (2 floor)	

ПРОГРАММА МЕРОПРИЯТИЙ КОНФЕРЕНЦИИ

13.08.2017

19:00 ВЕЧЕР-ВСТРЕЧА УЧАСТНИКОВ КОНФЕРЕНЦИИ

(программа будет объявлена дополнительно)

Конференц-зал базы отдыха "Черноморка" (2 этаж)

19:30 ВЕЧЕР ГИТАРНОЙ МУЗЫКИ

«Гитара Испании – Классика и Фламенко»

Исполнитель *Дмитрий Печкин* (школа Анатолия Шевченко)

Музыкальный руководитель *Наталья Шевченко*

Конференц-зал базы отдыха "Черноморка" (2 этаж)

14.08.2017

09:30 ОТКРЫТИЕ XVII ГАМОВСКОЙ КОНФЕРЕНЦИИ-ШКОЛЫ

(Конференц-зал отеля "Гранд Марин")

12:45 Фотографирование участников конференции

(Вход в отель "Гранд Марин")

19:00 – 20:30 ВЕЧЕР ПАМЯТИ В.П.ЦЕСЕВИЧА

20:30 – 22:30 ФУРШЕТ

15.08.2017

**19:00 – 21:30 Планируется проведение круглого стола:
«АСТРОНОМИЯ В ЕВРОПЕ – СЕГОДНЯ И В ПЕРСПЕКТИВЕ»**

(Ведущие Я.С.Яцкив и И.Б.Вавилова)

ДИСКУССИЯ

«Астрономическое образование в Украине – проблемы и пути их решения»

(Ведущие Я.С.Яцкив, Б.С.Новосядлый, М.И.Рябов)

ИНФОРМАЦИЯ

«Встречи с известными астрономами и популяризаторами науки на страницах журнала «Вселенная. Пространство. Время»

(Главный редактор С.П.Гордиенко)

16.08.2017

19:00 – 23:00

Экскурсия «Вечерняя Одесса»

Морская прогулка

17.08.2017

19:30 – 20:30

ВЕЧЕР ЮМОРА

(писатель, главный редактор Одесского юмористического журнала «Фонтан» В.ХАИТ)

(программа будет объявлена дополнительно)

Конференц-зал базы отдыха "Черноморка" (2 этаж)

20:30 – 23:00

Товарищеский ужин

(Столовая базы отдыха "Черноморка")

18.08.2017

Вечерняя дегустация в Институте Таирова

19.08.2017

Экскурсия по Гамовским местам в Одессе

(ведущая И.Э.Рикун)

PLENARY SESSIONS

Monday, 14.08.2017

09:30 – 10:00 OPENING OF THE CONFERENCE, MEMORIAL REPORTS AND GREETING TALKS (*Conference Hall “Grand Marine”*)

(**Convener** *S.M.Andrievskiy*)

Greetings from the Rector of Odessa I.I. Mechnikov University *I.N.Koval*

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

Welcome on behalf of the Scientific Organizing Committee *SOC Co-Chair V.M.Shulga*

10:00 – 10:45 MEMORIAL SESSIONS

Yatskiv Ya.S., Korsun A.A. (MAO NASU) **V.P.TSESEVICH – A CORRESPONDING MEMBER OF ACADEMY OF SCIENCES OF UKRAINE**

Andronov I.L. (Odessa National Maritime University) **VLADIMIR PLATONOVICH TSESEVICH – A PROMINENT SCIENTIST, TEACHER, POPULARIZER AND ORGANIZER OF SCIENCE**

Vavilova I.B. (Main Astronomical Association) **SCIENTIFIC ASTRONOMICAL SCHOOL BY TSESEVICH AND SHULBERG** (poster)

10:45 – 11:15 Coffee break

11:15 – 12:30 PLENARY SESSION (*Conference Hall “Grand Marine”*)

(**Convener** *V.M.Shulga*)

Chernin A.D. (SAI MSU) **100 OF THE EINSTEIN’S COSMOLOGICAL CONSTANT**

Andronov I.L. (Odessa National Maritime University) **ODESSA SCIENTIFIC SCHOOL OF RESEARCHERS OF VARIABLE STARS: FROM V.P.TSESEVICH TO OUR DAYS**

Tuesday, 15.08.2017

09:30 – 11:00 PLENARY SESSION (*Conference Hall “Grand Marine”*)

(**Convener** *B.S.Novosyadlyi*)

Zhdanov V.I. (Taras Shevchenko Kyiv National University, Ukraine) **GRAVITATIONAL LENSING AND STRUCTURE OF COMPACT OBJECTS**

Bolotin Yu.L. (A.I.Akhieser Institute of Theoretical Physics, KhPhTI) **LIMIT VALUES AS AN UNIVERSAL METHOD OF DESCRIPTION OF PHYSICAL REALITY**

11:00 – 11:30 Coffee break

11:30 – 13:00 PLENARY SESSION (*Conference Hall “Grand Marine”*)

Andrievskiy S.M. (Astronomical observatory of Odessa I.I. Mechnikov University) **WHAT DO WE KNOW ABOUT GALACTIC DISC CENTRAL REGION?**

Novosyadlyi B.S. (I.Franko Lviv National University) **CAN VOIDS UNVEIL THE NATURE OF DARK ENERGY?**

Wednesday, 16.08.2017

09:30 – 11:00 PLENARY SESSION (*Conference Hall “Grand Marine”*)

(**Convener**)

Zakharenko V.V., Kravtsov I.P., Vasylieva Ia.Y. (Institute of Radio Astronomy NASU) **PULSAR DISCOVERING JUBILEE. 50 YEARS OF TRANSIENT INVESTIGATION ERA**

Lukin K. (IRE NASU), *Yu.Bolotin* **MEASURING THE EVENT HORIZON SHADOW OF Sgr A* BLACK HOLE – EXPERIMENT FOR GENERAL RELATIVITY VALIDATION**

11:00 – 11:30 *Coffee break*

11:30 – 13:00 **PLENARY SESSION** (*Conference Hall “Grand Marine”*)

Jenkovszky L.L. (Bogolyubov Institute for Theoretical Physics, Kiev) **NEW TRENDS IN HIGH-ENERGY PHYSICS**

Pankov A.A., Tsytrinov A.V. (Abdus Salam ICTP Affiliated Centre, Technical University of Gomel, Belarus; Institute of Nuclear Problems, Belarus State University, Minsk, Belarus) **SPIN AND MODEL DETERMINATION OF EXTRA NEUTRAL GAUGE BOSONS AT LHC AND ILC**

Thursday, 17.08.2017

09:30 – 11:00 **PLENARY SESSION** (*Conference Hall “Grand Marine”*)

(Convener)

Bisnovatyj-Kogan G.S. (SRI RAS) **30YEAR OF THE SUPERNOVA OUTBURST IN THE LARGE MAGELLANIC CLOUD – MODERN IDEAS ABOUT THE SUPERNOVA OUTBURSTS**

Tsytrinov A.V. (The Abdus Salam ICTP Affiliated Centre, Technical University of Gomel, Belarus) **PROSPECTS OF TRACKS RECONSTRUCTION WITH A NEW METHOD BASED ON DEEP LEARNING NEURAL NETWORKS AT NICA DETECTOR**

11:00 – 11:30 *Coffee break*

11:30 – 13:00 **PLENARY SESSION** (*Conference Hall “Grand Marine”*)

Moiseenko S.G., Bisnovaty-Kogan G.S., Ardelyan N.V. (Space Research Institute, Moscow, Russia; MEPHI, Moscow, Russia; Moscow State University, Moscow, Russia) **COMPLETELY CONSERVATIVE LAGRANGIAN OPERATOR-DIFFERENCE SCHEME FOR ASTROPHYSICAL MHD FLOWS**

Miroshnichenko L.I. (IZMIRAN) **EXTREMAL SOLAR EVENTS: DISCUSSION OF THEIR NATURE AND PROPERTIES**

Friday, 18.08.2017

09:30 – 11:00 **PLENARY SESSION** (*Conference Hall “Grand Marine”*)

(Convener)

Lozitsky V.G. (Kyiv University Astronomical Observatory) **EXTREMELY STRONG MAGNETIC FIELDS IN SOLAR FLARES**

Obridko V., Ragulskaaya M. (IZMIRAN, Moscow, Russia) **THE SUN AND THE BIOSPHERE: THE PARADOXES OF 4 BILLION YEARS OF COEXISTENCE**

11:00 – 11:30 *Coffee break*

11:30 – 12:30 **PLENARY SESSION** (*Conference Hall “Grand Marine”*)

Ryabov M.I., Sukharev A.L. (Odessa observatory «URAN-4» Institute of Radio Astronomy NASU) **VARIABILITY OF THE SUN. OBSERVATIONAL JUSTIFICATION OF CONTINUITY OF THE SOLAR ACTIVITY**

Orlyuk M., Marchenko A., Romanets A. (Institute of Geophysics by S.I.Subbotin name NAS Ukraine) **SECULAR VARIATIONS OF GEOMAGNETIC FIELD AND ITS RELATIONSHIP WITH SEISMICITY OF THE EARTH**

12:30 – 13:00 **CLOSING OF THE CONFERENCE**

SECTION SESSIONS

COSMOLOGY, GRAVITATION, ASTROPARTICLE PHYSICS, HIGH ENERGY PHYSICS

(Conveners: Zhuk A.I., Novosiadlyi B.S.)

Monday, 14.08.2017

14:30 – 16:10 Section session (*Conference Room in “Chernomorka”, 1 floor*)

1. *Minaiev P., Skalozub V.* SPONTANEOUS MAGNETIZATION OF QUARK-GLUON PLASMA AT THE LHC EXPERIMENTS
2. *Burdyuzha V.* SPECTROSCOPY OF DARK MEDIUM: FIRST STEPS
3. *Bolotin Yu.L.* THE ABC OF COSMOGRAPHY
4. *Lukin K., Harmuth H.F.* INTERSTELLAR PROPAGATION OF ELECTROMAGNETIC SIGNALS
5. *Sergijenko O.* EFFECTIVE SOUND SPEED OF DARK ENERGY: OBSERVATIONAL CONSTRAINTS FROM PLANCK-2015

16:10 – 16:30 Coffee break

16:30 – 18:10 Section session (*Conference Room in “Chernomorka”, 1 floor*)

6. *Zhdanov V.I., Dylida S.S.* ON THE RELATION BETWEEN SCALAR FIELD AND HYDRODYNAMIC MODELS IN HOMOGENEOUS ISOTROPIC COSMOLOGY
7. *Stashko O.S., Zhdanov V.I.* (Taras Shevchenko National University of Kyiv, Ukraine) DISCONNECTED STRUCTURES OF STABLE CIRCULAR ORBITS AROUND RELATIVISTIC COMPACT OBJECTS IN PRESENCE OF SCALAR FIELDS
8. *Chopovsky A.V., Eingorn M.V., Fakhr S.H., Zhuk A.I.* BRANE-WORLDS WITH CONFORMALLY CURVED BULK GEOMETRY
9. *Gladush V.D.* QUANTUM MODEL OF THE CHARGED BLACK HOLE
10. *Holovko M.G., Gladush V.D.* QUANTIZATION OF THE SPHERICALLY SYMMETRIC CONFIGURATION OF THE GRAVITATIONAL AND ELECTROMAGNETIC FIELDS
11. *Neomenko R.* THE EVOLUTION OF COSMOLOGICAL PERTURBATIONS IN MODELS WITH NON-MINIMALLY COUPLED DARK ENERGY

POSTERS

1. *Shapovalov G.V., Muntyan Yu.N.* ON THE ISLAND MODELS WITH PLEBANSKI-DEMYANSKI-TYPE METRIC IN GR
2. *Babyk Iu.* MAGNETIC FIELD IN GALAXY CLUSTERS
3. *Hradyskyi A.V., Stepanovskyi Yu.P.* THE MASSLESS LIMIT OF RELATIVISTIC WAVE EQUATIONS AND MASSIVE GRAVITON

Tuesday, 15.08.2017

14:30 – 16:10 Section session (*Conference Room in “Chernomorka”, 2 floor*)

1. *Iakubovskiy D.A., Rudakovskiy A.V.* CORES IN DARK MATTER HALOES WITH MAXIMAL PHASE-SPACE DENSITY
2. *Savchenko D.O., Iakubovskiy D.A.* RECENT RESULTS OF 3.5 KEV LINE SEARCHES
3. *Bannikova E.* LAGRANGIAN CIRCLE AND REGION OF UNSTABLE ORBITS IN RING GALAXIES
4. *Bannikova E., Kotvytskiy A.* GRAVITATIONAL LENSING EFFECTS ON A HOMOGENEOUS RING WITH A CENTRAL MASS
5. *Kotvytskiy A.T., Bronza S.D., Shablenko V.Yu.* CORRELATION OF THE NUMBER OF IMAGES OF AN N-POINT GRAVITATIONAL LENS AND THE NUMBER OF SOLUTIONS OF ITS SYSTEM

16:10 – 16:30 Coffee break

16:30 – 18:10 Section session (*Conference Room in “Chernomorka”, 2 floor*)

6. *Panko E.A.* THE PECULIARITIES IN I-TYPE GALAXY CLUSTERS
7. *Shevchenko S., Tugay A.* X-RAY ALIGNMENT OF ABELL GALAXY CLUSTERS BY FOCAS METHOD
8. *Tugay A.* STATISTICAL ANALYSIS OF LARGE-SCALE STRUCTURE OF UNIVERSE
9. *Olyeynik V.P., Potapenko I.V.* ON THE APPROACH OF REAL NONORTHOGONAL TETRAD IN GR
10. *Boyko Y.I., Kopyt N.Kh., Kopyt N.N.* ABOUT THE SYSTEM APPROACH TO THE NUMERICAL DESCRIPTION OF SYSTEM COSMOGONY
11. *Shapoval A.A., Shapoval I.V., Titarenko B.P.* TO EVALUATION OF THE INFLUENCE OF MICROGRAVITATION LEVELS ON PHYSICAL PROCESSES IN SPACE HEAT TRANSFERING TWO-PHASE DEVICES

POSTERS

1. *Bukalov A.V.* THE EQUATIONS OF GENERAL RELATIVITY AS EQUATIONS OF GRAVITATIONAL SUPERCONDUCTIVITY AND GEOMETRIC QUANTIZATION OF THE GRAVITATIONAL FLOW
2. *Bukalov A.V.* NATURE OF COSMOLOGICAL TIME: FROM THE MACROSCOPIC EQUATIONS OF GENERAL RELATIVITY TO QUANTUM MICROSCOPIC DYNAMICS
3. *Pogosyan S.S.* TO THE QUESTION OF THE RATIO OF THE MASSES OF GALAXIES (OR SYSTEMS OF GALAXIES) AND CENTRAL BLACK HOLES

ASTROPHYSICS

Monday, 14.08.2017

14:30 – 16:10 Section session (*Conference Room in “Chernomorka”, 2 floor*)

Convener – *T.V.Mishenina*

1. *Kondratyev V.N.* ZEEMAN ENERGY AT EXPLOSIVE NUCLEOSYNTHESIS
2. *Velichko A.B., Akhmetov V.S., Fedorov P.N.* KINEMATICS OF OUR GALAXY FROM THE PMA AND TGAS CATALOGUES
3. *Mishenina T., Klochkova V., Panchuk V., Basak N., Kovtyukh V., Korotin S.* THREE GIANTS – MEMBERS OF THE OPEN CLUSTER M67
4. *Melekh B., Koshmak I.* DETERMINATION OF THE CHEMICAL COMPOSITION IN THE DWARF GALAXIES USING MULTICOMPONENT PHOTOIONIZATION MODELLING METHOD
5. *Gopka V.F., Shavrina A.V., Yushchenko A.V., Pavlenko Ya.V., Andrievsky S.M., Yushchenko V.A., Vasileva S.V.* THE ANALYSIS OF ACTINIUM ABUNDANCE IN THE ATMOSPHERES OF THREE MAGELLANIC CLOUDS RED SUPERGIANTS STARS
6. *Usenko I.A., Kniazev A.Yu., Kovtyukh V.V.* SPECTROSCOPICAL INVESTIGATIONS OF FAINT SOUTHERN CEPHEIDS USING SOUTHERN AFRICAN LARGE TELESCOPE (SALT). FIRST RESULTS
7. *Yushchenko V.A.* INTERSTELLAR GAS ACCRETION

16:10 – 16:30 Coffee break

16:30 – 18:10 Section session (*Conference Room in “Chernomorka”, 2 floor*)

Convener – *I.L.Andronov*

8. *Andronov I.L., Kozytska K.* LINEAR CORRELATION: STATISTICAL CHARACTERISTICS
9. *Andronov I.L., Andrych K.D., Chinarova L.L.* STATISTICALLY OPTIMAL MODELING OF FLAT ECLIPSES AND EXOPLANET TRANSITIONS. THE “WALL-SUPPORTED PARABOLA” (WSP) ALGORITHM
10. *Andronov I.L., Tkachenko M.G., Chinarova L.L.* PROGRAM COMPLEX FOR PHENOMENOLOGICAL MODELING OF ECLIPSING BINARY STARS
11. *Plachinda S.I., Butkovskaya V.V.* STELLAR ACTIVITY CYCLES: WHY DO WE NEED IN THE LONG-TERM MEASUREMENTS OF THE MAGNETIC FIELD?
12. *Dubovský P.A.* LONG PERIOD VARIABLES VISUAL LIGHT CURVES COMPARED WITH CCD DATA FROM ALL SKY SURVEYS
13. *Vavrukh M.V., Dzikovskyi D.V., Smerechynskyi S.V.* THE STRUCTURE OF MASSIVE DWARFS WITH SPIN-POLARIZED ELECTRON SUBSYSTEM

14. *Breus V.V.* RECENT DATA ON SELECTED MAGNETIC CATAclysmic BINARY SYSTEMS

15. *Andronov I.L., Breus V.V., Chinarova L.L., Dubovský P.A., Kolesnikov S.V., Kim Yonggi, Mishevskiy N., Petrik K., Yoon Joh-Na.* DO DRA: THE CATAclysmic VARIABLE ERRONEOUSLY IDENTIFIED WITH YY DRA: THE ECLIPSING “LOST STAR” DISCOVERED BY V.P.TSESSEVICH

POSTERS (August, 14 and after session «Astroinformatics» August, 15)

1. *Andronov I.L., Kudashkina L.S.* PHASE PLANE ANALYSIS OF THE PHOTOMETRICAL VARIATIONS OF LONG-PERIOD VARIABLES

2. *Andronov I.L., Medulka T.* TWO NEWLY DISCOVERED VARIABLE STARS

3. *Gorbaneva T.I., Mishenina T.V.* MOLYBDENUM AND RUTHENIUM ABUNDANCES IN COOL STARS OF GALACTIC DISK

4. *Griv E.* SPIRAL STRUCTURE OF GALAXIES: WAVES AND INSTABILITIES

5. *Kondratyev V.N.* SHORT SOFT Γ -RAY BURST SPECTRAL EVOLUTION

6. *Nazarenko V.V., Nazarenko S.V.* THE ON- AND OFF-STATE GENERATIONS IN THE THICK ACCRETION DISK

7. *Plachinda S.I.* COSMOLOGICAL REDSHIFT AT THE STATIONARY UNIVERSE

8. *Vidmachenko A.P.* ABOUT MY OBSERVATIONS OF THE SUPERNOVA 1987A

SUBSECTION “ASTROINFORMATICS”

(Convener *I.B.Vavilova*)

Tuesday, 15.08.2017

14:30 – 16:10 Section session (*Conference Room in “Chernomorka”, 1 floor*)

1. *Akhmetov V.S., Fedorov P.N., Velichko A.B.* THE COMPARISON AND DATA ANALYSIS OF MODERN ASTROMETRIC CATALOGUES IN GAIA ERA
2. *Andruk V., Yuldoshev Q., Eglitis I., Pakuliak L., Mullo-Abdolo A., Vavilova I., Protsyuk Yu., Relke H., Golovnia V., Shatokhina S., Yizhakevych O., Ehgamberdiev Sh., Muminov M., Kazantseva L.* ON THE CONCEPT OF THE ENHANCED FON CATALOG COMPILATION
3. *Protsyuk Yu.I., Maigurova N.V., Kovylianska O.E., Protsyuk S.V.* CATALOGUE OF STARS IN +65°—+90° ZONE FOR 1930.4 EPOCH BY USING IMAGES FROM UKRVO PLATE ARCHIVE
4. *Yuldoshev Q.X., Muminov M.M., Ehgamberdiev Sh.A., Relke H., Protsyuk Yu.I., Andruk V.N.* CATALOGUE OF COORDINATES AND B-MAGNITUDES IN -20° — +2 ° ZONE BASED ON THE ULUGH BEG ASTRONOMICAL INSTITUTE PART OF THE FON PROJECT
5. *Shlyapnikov A.* SPICA – "SHAJN'S PLANE" INPUT CATALOGUE
6. *Dmytrenko A.M., Akhmetov V.S.* ASTRONOMICAL IMAGE PROCESSING FOR HIGH-ACCURATE ASTROMETRY DATA
7. *Mullo-Abdolov A., Kokhirova G., Relke H., Yuldoshev Q., Protsyuk Yu., Andruk V.* INVESTIGATION OF THE MICROTEK SCANMAKER 1000XL PLUS SCANNER OF THE INSTITUTE OF ASTROPHYSICS OF THE AKADEMY OF SCIENCES OF THE REPUBLIC OF TAJIKISTAN
8. *Golovnia V.V., Yizhakevych O.M., Shatokhina S.V., Kulyk I.V., Andruk V.M.* OBSERVATIONS OF SOLAR SYSTEM BODIES AT THE MAIN ASTRONOMICAL OBSERVATORY OF THE NAS OF UKRAINE: FINAL RESULTS

16:10 – 16:30 Coffee break

16:30 – 17:30 Section session (*Conference Room in “Chernomorka”, 1 floor*)

9. *Shatokhina S.V., Kazantseva L.V., Yizhakevych O.M., Eglitis I., Andruk V.M.* RESULTS AND PERSPECTIVES OF ASTEROIDS SEARCH FROM OBSERVATIONS OF LARGE PHOTOGRAPHIC SURVEYS OF STARS
10. *Holovashchenko V.A., Kolomiyets S.V.* VISUALIZATION OF OBSERVATIONAL METEOR DATA IN THE EQUATORIAL COORDINATE SYSTEM USING INFORMATION TECHNOLOGY
11. *Yizhakevych O., Andruk V., Pakuliak L.* CATALOGUE OF ASTROMETRIC POSITIONS OF JUPITER'S OUTER SATELLITES ON PHOTOGRAPHIC OBSERVATIONS AT THE MAO NAS OF UKRAINE IN 1987-1993
12. *Khramtsov V.P., Akhmetov V.S.* CANDIDATES IN EXTRAGALACTIC SOURCES FROM THE WISE×SCOSMOS CATALOGUE

17:30 – 18:10 POSTERS

RADIOASTRONOMY

(Conveners: *O.A.Litvinenko, O.M.Ulyanov*)

Wednesday, 16.08.2017

14:30 – 16:10 Section session (*Conference Room in “Chernomorka”, 2 floor*)

1. *Bisnovatyi-Kogan G.S.* LIGHT CURVES OF TRANSIENT COSMIC ACCRETING SOURCE IN DIFFERENT WAVELENGTHS
2. *Ulyanov O.M.* INVESTIGATION OF ANOMALOUSLY INTENSIVE PULSES OF PULSARS IN THE DECAMETER RANGE
3. *Ulyanov O.M., Shevtsova A.I., Zakharenko V.V., Skoryk A.O., Vasylieva Ia.Y.* ROTATION MEASURE ESTIMATION FOR ANOMALOUSLY INTENSE PULSES OF PSR J0243+6257
4. *Oknyansky V.L., Gaskell C.M., Huseynov N.A., Mikailov Kh.M., Lipunov V.M., Shatsky N.I., Tsygankov S.S., Gorbovskoy E.S., Tatarsnikov A.M., Metlov V.G., Malanchev K.L., Brotherton M.B., Kasper D., Du P., Chen X., Burlak M.A.* INVESTIGATIONS OF THE CHANGING LOOK AGN NGC 2617 DURING THE TRANSIENT STATE
5. *Shepelev V. A., Konovalenko A.A., Lytvynenko O.A., Isaeva E.A., Vashchishin R.V.* TEST OBSERVATIONS OF THE QUASAR 3C380 WITH THE URAN-2 INTERFEROMETER USING DSP-Z RECEIVERS

16:10 – 16:30 Coffee break

16:30 – 18:10 Section session (*Conference Room in “Chernomorka”, 2 floor*)

6. *Miroshnichenko A.P.* EVOLUTION FEATURES OF GIANT SOURCES WITH LINEAR AND BREAK STEEP RADIO SPECTRA
7. *Patoka O.M., Shulga V.M., Antyufeyev O.V., Myshenko V.V.* OVERVIEW OF THE SOURCES TOWARD CLASS II METHANOL MASERS IN THE CS ($J = 2 - 1$) LINE EMISSION FOR THE NORTHERN CELESTIAL HEMISPHERE
8. *Sukharev A.L., Bezrukovs V., Bleiders M., Orbidans A., Ryabov M.I.* ABOUT BEGINNING PROGRAM OF RESEARCHES SHORT-TERM FLUXES VARIABILITY OF EXTRAGALACTIC RADIO SOURCES ON RADIO TELESCOPES OF VENTSPILS RADIO ASTRONOMY CENTER
9. *Lytvynenko O.A., Derevyagin V.G., Lytvynenko I.O., R.O. Kravetz* RADIOMETRIC OBSERVATIONS IN THE MONITORING MODE OF GALACTIC AND EXTRAGALACTIC COMPACT RADIO SOURCES AT RADIOTELESCOPE "URAN-4"
10. *Gorbunov A.A., Ryabov M.I., Panishko S.K., Sukharev A.L.* SECULAR DECREASE IN THE CAS A FLUX IN THE DECAMETER RANGE, BASED ON THE DATA OF LONG-TERM MONITORING AT RT "URAN-4" OF THE RI NASU

Thursday, 17.08.2017

14:30 – 16:10 Section session (*Conference Room in “Chernomorka”, 1 floor*)

1. *Lytvynenko O.A., Panishko S.K.* SHORT TIME INTERVAL VARIATIONS OF THE IONOSPHERE SCINTILLATION PARAMETERS ON THE POWER COSMIC RADIO SOURCES OBSERVATIONS AT THE DECAMETER WAVE RANGE
2. *Abramciuc V.P.* ABOUT SOME FEATURES OF THE FORMATION OF SPORADIC INHOMOGENEITIES IN THE IONOSPHERE
3. *Marenkov V.I. Gaponovich YA.V.* STATISTICAL CONCEPT OF THE DESCRIPTION OF BRAKE RADIO-RADIATION OF PLASMA-DUST FORMATIONS IN THE DEPLETED ATMOSPHERE AND SPACE: PROBLEMS OF TELEDIAGNOSTICS
4. *Kolomiyets S.V., Cherkas Yu.V., Mitrokhina V.V.* ON SOME METHODS OF INTERPRETATION OF THE RESULTS OF METEOR OBSERVATIONS DEVELOPED IN KHARKIV ON THE BASIS OF RADIO ENGINEERING TECHNOLOGY
5. *Isaeva E.A., Lytvynenko O.A., Shepelev V.A.* SOFTWARE FOR ADAPTING DSP-Z RECEIVERS TO THE URAN INTERFEROMETER NETWORK
6. *Galanin V.V., Derevyagin V.G., Lytvynenko O.A.* AUTOMATION OF THE RADIO TELESCOPE URAN-4

16:10 – 16:30 Coffee break

16:30 – 18:10 Section session (*Conference Room in “Chernomorka”, 1 floor*)

DISCUSSION

POSTERS

7. *Gorbunov A.A., Isaev E.A., Samodurov V.A.* APPLICATION OF DEEP LEARNING NEURAL NETWORK FOR CLASSIFICATION BIG DATA OF ASTRONOMIC OBSERVATIONS
8. *Samodurov V.A., Pozanenko A.S., Toropov M.O., Rodin A.E., Churakov D.D., Dumskij D.V., Isaev E.A., Kazantsev A.N., Logvinenko S.V., Oreshko V.V.* SEARCH FOR POSSIBLE RADIO COUNTERPARTS OF GRAVITATIONAL-WAVE EVENTS DETECTED BY LIGO/VIRGO EXPERIMENTS IN THE DATA OF DAILY SURVEY OF BSA LPI AT 110 MHZ

**SOLAR ACTIVITY, SOLAR-TERRESTRIAL RELATIONS,
ASTROBIOLOGY**

(Conveners: *V.M.Efimenko, M.I.Ryabov*)

Friday, 18.08.2017

14:30 – 16:10 Section session (*Conference Room in “Chernomorka”, 2 floor*)

1. *Efimenko V.M., Lozitsky V.G.* AREAS OF SUNSPOTS AND THEIR VARIATION AT 12-24 CYCLES OF SOLAR ACTIVITY
2. *N.I.Loizitska* MAGNETIC CHARACTERISTICS OF ACTIVE REGIONS – SOURCES OF SOLAR PROTON EVENTS
3. *Stodilka M.I., Sukhorukov A.V.* PHYSICAL CONDITIONS IN PHOTOSPHERE JETS OF THE QUIET SOLAR ATMOSPHERE
4. *Isaeva E.A., Tsap Yu.T.* MICROWAVE EMISSION OF SOLAR FLARES: CORONAL MASS EJECTIONS AND SHOCK WAVES
5. *Eigenson A.M.* INVESTIGATION OF TIME SERIES BY THE METHODS OF MULTIDIMENSIONAL STATISTICAL ANALYSIS
6. *Eigenson A.M.* CORRELATION BETWEEN SOLAR AND SEISMIC ACTIVITY. ON PROGNOSIS OF EARTHQUAKES AND VOLCANIC ERUPTIONS ON DAILY SOLAR INDEXES

16:10 – 16:30 Coffee break

16:30 – 18:10 Section session (*Conference Room in “Chernomorka”, 2 floor*)

7. *Komendant V.* NEW MULTIPLE CORRELATION MODELS OF DRAG ARTIFICIAL SATELLITES OF THE EARTH INCLUDING THE PARAMETERS OF SOLAR WIND AND THE LAYMAN – ALPHA EMISSION INDEX IN THE 23–24th CYCLES OF SOLAR ACTIVITY
8. *Koval'chuk M.M., Baran O.A., Stodilka M.I., Vovchyk Ye.B., Bilinsky A.I., Blahodyr Ya.T., Virun N.V.* THE INFLUENCE OF THE SOLAR ACTIVITY ON THE CHARACTER OF CHANGING OF THE ORBITAL DATA OF THE ARTIFICIAL SATELLITES OF THE EARTH (poster)
9. *Sidorenkov N.S.* ABOUT INFLUENCE OF THE SUN'S RETROGRADE MOTION ON TERRESTRIAL PROCESSES
10. *Sokolova N.* FRONTIERS OF ASTROBIOLOGY: ORIGIN, EVOLUTION AND FUTURE OF LIFE ON EARTH AND BEYOND
11. *Sukharev A., Ryabov M., Orlyuk M., Romenets A., Guglya L.* THE REACTION OF THE ODESSA MAGNETIC ANOMALY TO THE EFFECT OF SOLAR ACTIVITY IN THE 24TH CYCLE

POSTERS:

12. *Koval'chuk M.M., Hirnyak M.B., Stodilka M.I.* THE SEARCH OF CHANGES OF SOLAR ABUNDANCE ON THE 11-YEAR ACTIVITY CYCLE (poster)

SOLAR SYSTEM, NEAR-EARTH SPACE

(Convener *N.I.Koshkin*)

Wednesday, 16.08.2017

14:30 – 16:10 Section session (*Conference Room in “Chernomorka”, 1 floor*)

Convener –

1. *Bushuev F., Kaliuzhnyi M., Shulga O., Shakun L., Bezrukovs V., Reznichenko O., Moskalenko S., Malynovskyi Ye.* RESULTS OF ORBITAL ELEMENTS DETERMINATION OF A GEOSTATIONARY SATELLITE BY OBSERVATIONS OF THE NETWORK OF PASSIVE CORRELATION RANGING
2. *Hromakina T., Perna D., Belskaya I., Dotto E., Bisi F.* SHORT-TERM ROTATIONAL VARIABILITY OF SELECTED TRANSNEPTUNIAN OBJECTS AND CENTAURS
3. *Gorbanev Yu.M.* NEW METHOD OF THE BRIGHT METEOR AND BOLIDES REGISTRATION
4. *Gorbanev Yu.M., Golubaev A.V., Kimakovskii S.R., Knyaz'kova E.F.* SEASONAL BASIS AND NON-BASIS METEOR TV PATROL AT ZMEINYI ISLAND DURING 2005-2011
5. *Kimakovskaya I.I., Gorbanev Yu.M.* ANOMALOUS METEOR LIGHT CURVES FROM METEOR TV PATROL

16:10 – 16:30 Coffee break

16:30 – 18:10 Section session (*Conference Room in “Chernomorka”, 1 floor*)

Convener –

6. *Kimakovskii S.R., Gorbanev Yu.M.* ACTIVITY OF THE SOUTHERN AND NORTHERN TAURIDES ON RESULTS OF THE TV PATROL AT THE KRYZHANOVKA OBSERVATIONAL STATION IN 2003-2016
7. *Kulichenko M.O., Shulga O.V.* DOUBLE STATION OBSERVATION OF METEORS WITH LOW BASELINE IN MYKOLAIV
8. *Nosach A.A., Kolomiyets S.V.* DISTRIBUTION OF ELEMENTS OF ORBITS AND VELOCITIES OF METEOR BODIES WITH SMALL VALUES OF ELONGATIONS OF THEIR RADIANTS FROM THE SUN ACCORDING TO THE RESULTS OF RADAR OBSERVATIONS IN KHARKIV
9. *Bondarenko Yu.* INTERESTING AND INCOMPREHENSIBLE DETAILS OF THE LUNAR SURFACE
10. *Kruchynenko V.G., Steklov A.F., Vidmachenko A.P., Dashkiev G.N., Steklov E.A.* CHURYUMOV PROJECT ON ANNUAL STUDY OF FRAGMENTS OF HALLEY'S COMET NUCLEUS DURING SPRING AND AUTUMN: FIRST RESULTS

Thursday, 17.08.2017

14:30 – 16:10 Section session (Conference Room in “Chernomorka”, 2 floor)

Convener –

1. *Savanevych V.E., Briukhovetskyi O.B., Khlamov S.V., Pohorelov A.V., Vlasenko V.P., Dikov E.N., Dubovský P.A., Kudzej I., Parimucha Š.* CoLiTecVS – NEW TOOL FOR AUTOMATED REDUCTION OF PHOTOMETRIC OBSERVATIONS
2. *Koshkin N., Savanevich V., Pohorelov A., Zhukov V., Strakhova S., Moskalenko S., Kashuba V., Krasnoshchokov A.* UKRAINIAN DATABASE AND ATLAS OF LIGHT CURVES OF ARTIFICIAL SPACE OBJECTS
3. *Shakun L., Kaminski K., Koshkin N., Golebiewska J., Korobeinikova E., Wnuk E.* DETERMINATION OF ORBITAL AND SPIN PARAMETERS OF LEO SATELLITES BY POLISH AND UKRAINIAN OPTICAL OBSERVATORIES
4. *Mozgova A.M., Kleschonok V.V., Borovichka J.* SOME RESULTS OF FOUR METEOR SPECTRA RESEARCH

16:10 – 16:30 Coffee break

16:30 – 18:10 Section session (Conference Room in “Chernomorka”, 2 floor)

Convener –

5. *Maigurova N.V., Bodryagin D.V., Bondarchuk L.E.* ACCURACY OF MYKOLAIV ASTEROID OBSERVATIONS WITH DIFFERENT REFERENCE CATALOGUES
6. *Maigurova N.V., Pomazan A.V.* THE ASTROMETRIC RESULTS OF OBSERVATIONS OF PERIODICAL COMETS AT KT-50 TELESCOPE IN NIKOLAEV ASTRONOMICAL OBSERVATORY
7. *Troianskyi V.V., Bazyey O.A.* PHOTOMETRIC OBSERVATIONS OF SMALL BODIES ON THE OMT-800 TELESCOPE
8. *Velichko S.F.* SPECTROPHOTOMETRY OF COMET C/2013 US10 (CATALINA)
9. *Horbachova A.* DYNAMICS OF MULTIPLE SYSTEM PLUTO
10. *Steklov A.F., Vidmachenko A.P., Dashkiev G.N., Steklov E.A.* CIRCUMPOLAR DISTRIBUTION BY LATITUDE OF SUBSURFACE BIORESOURCE COMFORTABLE TEMPERATURE ON MERCURY

POSTERS

11. *Bazyey O.A., Troianskyi V.V., Savanevich V.Ye.* THE FORECAST OF NEAR-EARTH ORBITAL MOTION OF THE SATELLITE
12. *Kazantsev A.M., Kazantseva L.V.* AN ESTIMATION FOR QUANTITY OF EXISTING BODIES OF DIFFERENT SIZES IN THE KUIPER BELT
13. *Stankevich D.G., Hradyska L.V., Shevchenko V.G., Shkuratov Yu.G., Gorden Videen* NEW NUMERICAL SHAPE MODEL OF ASTEROID
14. *Vidmachenko A.P.* PERIODICITY IN CHANGE OF PHOTOMETRIC ACTIVITY OF JUPITER’S HEMISPHERES BEGAN TO RECOVER
15. *Churyumov K.I.*, *Steklov A.F., Vidmachenko A.P., Dashkiev G.N., Steklov E.A.* TRACES OF DIFFERENT INVASION IN SKY OVER KIEV AND ODESSA IN 2016-2017: PAYMENT OF FINES AS SOURCE OF FINANCING OBSERVATORY