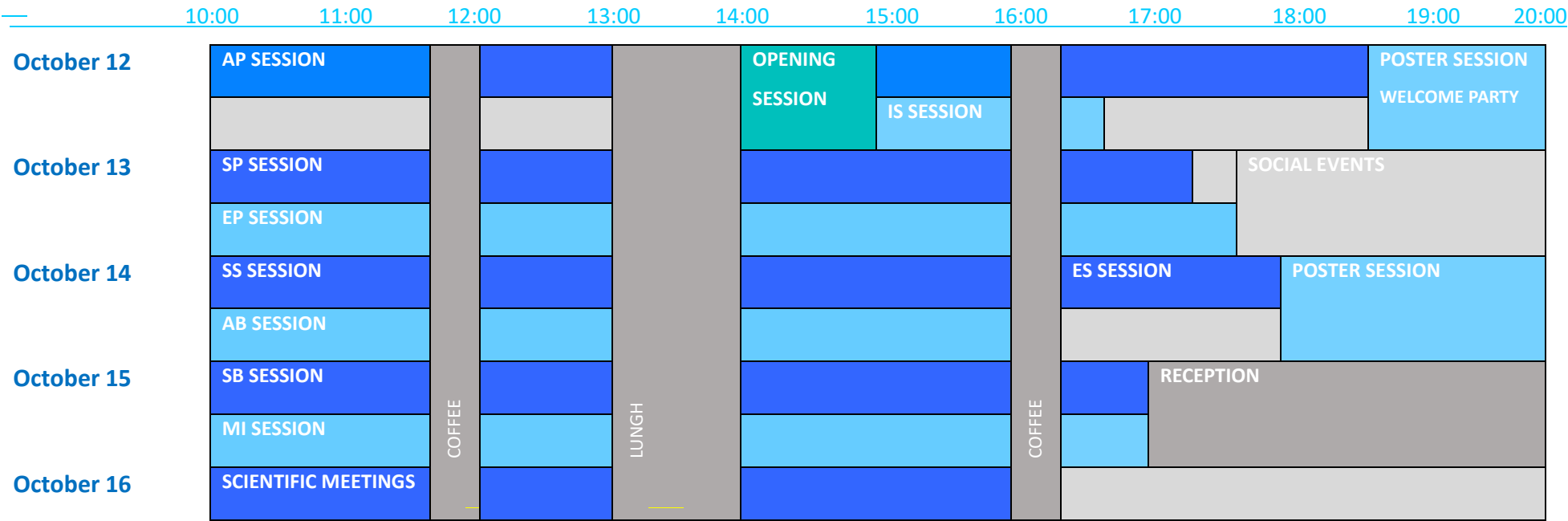


Overview 17M-S<sup>3</sup> Program  
THE SEVENTEENTH MOSCOW SOLAR SYSTEM SYMPOSIUM (17M-S<sup>3</sup>)  
IKI RAS, 12-16 October 2026



- AP SESSION

ATMOSPHERES OF PLANETS SESSION/ IKI CONFERENCE HALL
- IS SESSION

INTERNAL STRUCTURE OF PLANETS AND MOONS SESSION/ IKI EXHIBITION HALL
- SP SESSION

SURFACES OF PLANETS AND MOONS SESSION/ IKI CONFERENCE HALL
- EP SESSION

EXTRASOLAR PLANETS SESSION/ IKI EXHIBITION HALL
- SS SESSION

SOLAR SYSTEM IN THE LAB SESSION/ IKI CONFERENCE HALL
- ES SESSION

EXOSPHERES OF AIRLESS BODIES SESSION/ IKI CONFERENCE HALL
- AB SESSION

ASTROBIOLOGY SESSION/ IKI EXHIBITION HALL
- SB SESSION

SMALL BODIES INCLUDING SPACE DUST SESSION/ IKI CONFERENCE HALL
- MI SESSION

PLANETARY MISSIONS AND SCIENTIFIC INSTRUMENTATION SESSION/ IKI EXHIBITION HALL
- SCIENTIFIC MEETINGS/ IKI CONFERENCE HALL

POSTER SESSION/ IKI EXHIBITION HALL

# 17M-S3 SCIENTIFIC PROGRAM

|                                                                                                                                                                                                                                                                                    |                                    |                                                                                                                                                            |                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Monday, 12 October 2026                                                                                                                                                                                                                                                            |                                    |                                                                                                                                                            |                    |
| <b>OPENING SESSION</b><br><b>Convener: Lev ZELENYI</b><br><b>conference hall, second floor</b><br><b>Opening Remarks</b><br><b>Dr. Ulpia-Elena BOTEZATU</b><br><b>(Romania), Co-Chair</b><br><b>ATLAC</b><br><b>Mr. Hasan ABBAS</b><br><b>(Pakistan), Co-Chair</b><br><b>ATLAC</b> |                                    |                                                                                                                                                            | <b>14.00-15.00</b> |
| <b>Monday, 12 October 2026</b><br><b>Session 1. ATMOSPHERES OF PLANETS</b><br><b>Conveners: Oleg KORABLEV, Anna FEDOROVA</b><br><b>conference hall, second floor</b>                                                                                                               |                                    |                                                                                                                                                            |                    |
| 17MS3-AP-01                                                                                                                                                                                                                                                                        | Hiroki ANDO et al                  | Long-term variability of the Venusian atmosphere studied with Venus Express and Akatsuki radio occultation measurements / <i>Invited talk</i> /            | 10.00-10.20        |
| 17MS3-AP-02                                                                                                                                                                                                                                                                        | Dmitrij TITOV and Z. WANG          | Venus cloud top morphology: from VMC/ Venus Express to UVI/ Akatsuki                                                                                       | 10.20-10.40        |
| 17MS3-AP-03                                                                                                                                                                                                                                                                        | Dmitry GORINOV et al               | Venus Nightside Lower and Middle Cloud Atmospheric Circulation from IR2/Akatsuki Data                                                                      | 10.40-11.00        |
| 17MS3-AP-04                                                                                                                                                                                                                                                                        | Jinjin ZHAO and Dmitrij TITOV      | Venus Cloud Morphology: Vertical Coupling and Temporal Evolution from Venus Express Multispectral Imaging                                                  | 11.00-11.20        |
| 17MS3-AP-05                                                                                                                                                                                                                                                                        | Masahiro TAKAGI et al              | Angular momentum balance of the Venus atmospheric superrotation in and above the cloud layer / <i>Invited talk</i> /                                       | 11.20-11.40        |
| <b>Coffee-break</b>                                                                                                                                                                                                                                                                |                                    |                                                                                                                                                            | <b>11.40-12.00</b> |
| 17MS3-AP-06*                                                                                                                                                                                                                                                                       | Mikhail RAZUMOVSKIY and B. FOMIN   | Compact flux-fitting k-distribution parameterizations suitable for radiation blocks in Venus climate models                                                | 12.00-12.20        |
| 17MS3-AP-07                                                                                                                                                                                                                                                                        | Andrey KIRILLOV et al              | Electronic kinetics and emissions of carbon monoxide in discharges in CO <sub>2</sub> -N <sub>2</sub> -CO atmospheres                                      | 12.20-12.40        |
| 17MS3-AP-08                                                                                                                                                                                                                                                                        | Anastasiia IVANOVA et al           | Studies of the atmospheres of giant planets based on data obtained at the SAO RAS                                                                          | 12.40-13.00        |
| <b>Lunch</b>                                                                                                                                                                                                                                                                       |                                    |                                                                                                                                                            | <b>13.00-14.00</b> |
| <b>OPENING SESSION</b><br><b>conference hall, second floor</b>                                                                                                                                                                                                                     |                                    |                                                                                                                                                            | <b>14.00-15.00</b> |
| <b>Session 1. ATMOSPHERES OF PLANETS (Continuation)</b><br><b>Conveners: Oleg KORABLEV, Anna FEDOROVA</b><br><b>conference hall, second floor</b>                                                                                                                                  |                                    |                                                                                                                                                            | <b>15.00-18.20</b> |
| 17MS3-AP-09                                                                                                                                                                                                                                                                        | Denis BELYAEV et al                | Martian neutral atmosphere from the mesosphere to CO <sub>2</sub> exobase: a multi-mission climatology from occultation experiments                        | 15.00-15.20        |
| 17MS3-AP-10                                                                                                                                                                                                                                                                        | Anna FEDOROVA et al                | Non-migrating tides in the Martian mesosphere from temperature measurements of TGO and IUVS/MAVEN                                                          | 15.20-15.40        |
| 17MS3-AP-11*                                                                                                                                                                                                                                                                       | Anastasia ROMANOVA et al           | Interannual variations of the Martian seasonal cycle based on data from the HEND/Odyssey experiment                                                        | 15.40-16.00        |
| <b>Coffee-break</b>                                                                                                                                                                                                                                                                |                                    |                                                                                                                                                            | <b>16.00-16.20</b> |
| 17MS3-AP-12                                                                                                                                                                                                                                                                        | Anatoliy PAVLOV and A. A. GOROKHOV | Destruction of methane by negative ions in the lower atmosphere of Mars. A possible solution to the methane problem                                        | 16.20-16.40        |
| 17MS3-AP-13                                                                                                                                                                                                                                                                        | Hanlin YE and Jinsong PING         | Terrain-Modulated Illumination and Incoming Solar Radiation on Mars: Implications for Atmospheric Simulation Models and Mission Planning                   | 16.40-17.00        |
| 17MS3-AP-14                                                                                                                                                                                                                                                                        | Tatiana ERMAKOVA et al             | The Northern Hemisphere Stratosphere in the Past and Future: A Comparative Analysis of Temperature, Vertical Velocity, and Heat Transport                  | 17.00-17.20        |
| 17MS3-AP-15                                                                                                                                                                                                                                                                        | Andrey KOVAL et al                 | The Impact of Solar Activity on Global Wave Processes in the Middle and Upper Atmosphere: Numerical Modeling                                               | 17.20-17.40        |
| 17MS3-AP-16                                                                                                                                                                                                                                                                        | Grigory TSURIKOV et al             | Analysis of Earth's polar thermosphere overcooling during geomagnetic storms                                                                               | 17.40-18.00        |
| 17MS3-AP-17*                                                                                                                                                                                                                                                                       | Sofiia BLAZHNOVA et al             | Temporal and spatial characteristics of sporadic charged particle fluxes in the orbit around Mars, as measured by the HEND instrument onboard Mars Odyssey | 18.00-18.20        |
| <b>POSTER SESSION, WELCOME PARTY</b><br><b>exhibition hall, ground floor</b>                                                                                                                                                                                                       |                                    |                                                                                                                                                            | <b>18.30-20.30</b> |

\* — Participant in the Early Career Researcher Contest

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|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------|--------------------|
| <b>Monday, 12 October 2026</b>                                                                                                |                                        |                                                                                                               |                    |
| <b>OPENING SESSION</b><br>conference hall, second floor                                                                       |                                        |                                                                                                               | <b>14.00-15.00</b> |
| <b>Session 2. INTERNAL STRUCTURE OF PLANETS AND MOONS</b><br><b>Convener: Tamara GUDKOVA</b><br>exhibition hall, ground floor |                                        |                                                                                                               | <b>15.00-16.30</b> |
| <b>17MS3-IS-01</b>                                                                                                            | <b>Ekaterina KRONROD et al</b>         | A physically based stratified model of the lunar crust: comparison with an exponential compaction model       | 15.00-15.15        |
| <b>17MS3-IS-02</b>                                                                                                            | <b>Alexey BATOV et al</b>              | Tectonic stresses in the Cerberus region on Mars according to the analysis of digital relief models           | 15.15-15.30        |
| <b>17MS3-IS-03</b>                                                                                                            | <b>Egor KULIK and Tamara GUDKOVA</b>   | On the dependence of the value of the Chandler period of Mars on the mineralogy and temperature of the mantle | 15.30-15.45        |
| <b>Coffee-break</b>                                                                                                           |                                        |                                                                                                               | <b>15.45-16.20</b> |
| <b>17MS3-IS-04</b>                                                                                                            | <b>Anton SALNIKOV et al</b>            | Toward a global model of the Martian crustal magnetic field using legacy orbital magnetic observations        | 16.00-16.15        |
| <b>17MS3-IS-05</b>                                                                                                            | <b>Ivan BORONIN and Tamara GUDKOVA</b> | Inversion Results for Venus' Internal Structure with Probabilistic Approach: Elastic and Inelastic Models     | 16.15-16.30        |
| <b>POSTER SESSION, WELCOME PARTY</b><br>exhibition hall, ground floor                                                         |                                        |                                                                                                               | <b>18.30-20.30</b> |

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| <b>Tuesday, 13 October 2026</b>                                   |                                                 |                                                                                                                                  |                    |
| <b>Session 3. SURFACES OF PLANETS AND MOONS</b>                   |                                                 |                                                                                                                                  | <b>10.00-17.15</b> |
| <b>Convenor: Mikhail IVANOV<br/>conference hall, second floor</b> |                                                 |                                                                                                                                  |                    |
| <b>17MS3-SP-01</b>                                                | <b>Svetlana DEMIDOVA</b>                        | Ancient magmatism of the eastern part of the lunar nearside as recorded in Luna-16 soil sample                                   | 10.00-10.15        |
| <b>17MS3-SP-02*</b>                                               | <b>Artem LYSENKO et al</b>                      | Thermal-cycling resistance of lunar regolith simulant samples produced by selective laser melting                                | 10.15-10.30        |
| <b>17MS3-SP-03</b>                                                | <b>Nikita SHANDROV et al</b>                    | Local water-rich regions in the lunar south polar area from LEND data                                                            | 10.30-10.45        |
| <b>17MS3-SP-04</b>                                                | <b>Zhiguo MENG et al</b>                        | Retrieving Geothermal Heat Flow of the Moon Using Onboard Passive Microwave Remote Sensing Data                                  | 10.45-11.00        |
| <b>17MS3-SP-05</b>                                                | <b>Sergey KRASILNIKOV et al</b>                 | Small-scale crater morphology on the Moon                                                                                        | 11.00-11.15        |
| <b>Coffee-break</b>                                               |                                                 |                                                                                                                                  | <b>11.15-11.30</b> |
| <b>17MS3-SP-06</b>                                                | <b>Jun HUANG et al</b>                          | Geology of Rimae Bode region as priority site candidate for China's first crewed lunar mission                                   | 11.30-11.45        |
| <b>17MS3-SP-07</b>                                                | <b>Zhanna RODIONOVA et al</b>                   | Some Features of Crater Distribution in the Polar Regions of the Moon                                                            | 11.45-12.00        |
| <b>17MS3-SP-08</b>                                                | <b>Ekaterina FEOKTISTOVA et al</b>              | The De Gerlach–Shackleton Crater Region as a Potential Landing Site for Future Lunar Missions                                    | 12.00-12.15        |
| <b>17MS3-SP-09*</b>                                               | <b>Olga CHERNENKO et al</b>                     | Design of a Small-Scale Capsule's Return from the Lunar Surface                                                                  | 12.15-12.30        |
| <b>17MS3-SP-10</b>                                                | <b>Alexey ANDREEV et al</b>                     | Development of a Lunar Observation System for the Determination of the Moon's Rotation Parameters                                | 12.30-12.45        |
| <b>17MS3-SP-11</b>                                                | <b>Alexander BASILEVSKY et al</b>               | Geologic-morphologic analysis of Malapert Mons on the Moon                                                                       | 12.45-13.00        |
| <b>Lunch</b>                                                      |                                                 |                                                                                                                                  | <b>13.00-14.00</b> |
| <b>17MS3-SP-12</b>                                                | <b>Alexander GUSEV</b>                          | Geological exploring of the Moon: rare earth elements                                                                            | 14.00-14.15        |
| <b>17MS3-SP-13</b>                                                | <b>Mikhail IVANOV et al</b>                     | Geology of the western portion of Noachis Terra on Mars                                                                          | 14.15-14.30        |
| <b>17MS3-SP-14</b>                                                | <b>Ekaterina CHOLOVSKAIA and Mikhail IVANOV</b> | Geological settings of clay minerals in the western Noachis Terra, Mars                                                          | 14.30-14.45        |
| <b>17MS3-SP-15</b>                                                | <b>Dmitry GOLOVIN et al</b>                     | Local water rich regions in the equatorial area of Mars by FREND/TGO data                                                        | 14.45-15.00        |
| <b>17MS3-SP-16*</b>                                               | <b>George BAROEV et al</b>                      | Investigation of seasonal variability in passive measurements of the DAN instrument onboard the Curiosity rover                  | 15.00-15.15        |
| <b>17MS3-SP-17</b>                                                | <b>Daria EVDOKIMOVA et al</b>                   | SPICAV IR and VMC collocated observations to explore the Venus surface properties                                                | 15.15-15.30        |
| <b>17MS3-SP-18</b>                                                | <b>Mikhail IVANOV et al</b>                     | Emissivity variations of extensive rock units on Venus from the VMC data                                                         | 15.30-15.45        |
| <b>Coffee-break</b>                                               |                                                 |                                                                                                                                  | <b>15.45-16.00</b> |
| <b>17MS3-SP-19</b>                                                | <b>Mikhail IVANOV et al</b>                     | Selection of landing sites of the Venera-D mission                                                                               | 16.00-16.15        |
| <b>17MS3-SP-20*</b>                                               | <b>Danil MALYSHEV and Mikhail IVANOV</b>        | Spatial distribution and evolution of coronae and large volcanoes in Ulfrun and Beta Regiones, Venus                             | 16.15-16.30        |
| <b>17MS3-SP-21</b>                                                | <b>Victor GUBAREV et al</b>                     | Results of gamma-ray measurements performed by the MGNS instrument during the cruise phase of the BepiColombo mission to Mercury | 16.30-16.45        |
| <b>17MS3-SP-22*</b>                                               | <b>Askaniy ANPILOGOV</b>                        | A unified approach to photometric transformations and celestial object color determination                                       | 16.45-17.00        |
| <b>17MS3-SP-23*</b>                                               | <b>Yaroslav ILYUSHIN and Hongli ZHAO</b>        | Calculation of Radar Reflections from Relief Surfaces of Celestial Bodies                                                        | 17.00-17.15        |

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| <b>Tuesday, 13 October 2026</b>      |                                                 |                                                                                                                                                                                         |                    |
| <b>Session 4. EXTRASOLAR PLANETS</b> |                                                 |                                                                                                                                                                                         | <b>10.00-17.40</b> |
| <b>Convener: Alexander TAVROV</b>    |                                                 |                                                                                                                                                                                         |                    |
| <b>exhibition hall, ground floor</b> |                                                 |                                                                                                                                                                                         |                    |
| <b>17MS3-EP-01</b>                   | <b>Piero D'INCECCO et al</b>                    | Using Venus and Terrestrial Volcanic Analogs to Interpret Rocky Exoplanets                                                                                                              | 10.00-10.20        |
| <b>17MS3-EP-02*</b>                  | <b>Grigory MOROZOV and Elena BELENKAYA</b>      | Dependence of Exoplanet Properties on Their Location Relative to the Habitable Zone                                                                                                     | 10.20-10.40        |
| <b>17MS3-EP-03</b>                   | <b>Vladislava ANANYEVA and Alexander TAVROV</b> | Dependences of the Mass Distribution of TESS Transiting Giant Planets on Planetary Orbital Periods and on Host Star Masses                                                              | 10.40-11.00        |
| <b>17MS3-EP-04</b>                   | <b>Anastasiia IVANOVA et al</b>                 | Photometric observations of exoplanets by the SAO RAS                                                                                                                                   | 11.00-11.20        |
| <b>17MS3-EP-05</b>                   | <b>Elza BUSLAEVA and Elena BELENKAYA</b>        | Comparison of exoplanet characteristics in single and multi-star systems                                                                                                                | 11.20-11.40        |
| <b>Coffee-break</b>                  |                                                 |                                                                                                                                                                                         | <b>11.40-12.00</b> |
| <b>17MS3-EP-06</b>                   | <b>Grigory TSURIKOV et al</b>                   | The Spektr-UF space telescope as a tool for studying exoplanet atmospheres                                                                                                              | 12.00-12.20        |
| <b>17MS3-EP-07</b>                   | <b>Alexander TAVROV et al</b>                   | Progress in stellar coronagraphy for exoplanet imaging in IKI RAS                                                                                                                       | 12.20-12.40        |
| <b>Lunch</b>                         |                                                 |                                                                                                                                                                                         | <b>12.40-14.00</b> |
| <b>17MS3-EP-08*</b>                  | <b>Marina RUMENSKIKH et al</b>                  | Improving exoplanetary magnetic field determination via atomic alignment with inhomogeneous stellar spectra                                                                             | 14.00-14.20        |
| <b>17MS3-EP-09</b>                   | <b>Roman KISLOV et al</b>                       | Structure of the planetary wind flow of hot Jupiters with their own magnetic field at different positions of the Alfvén critical surface                                                | 14.20-14.40        |
| <b>17MS3-EP-10</b>                   | <b>Stanislav SHARIPOV et al</b>                 | Three-Dimensional Modeling of the Atomic Alignment Effect as a Diagnostic of Magnetic Fields in Hot Exoplanets                                                                          | 14.40-15.00        |
| <b>17MS3-EP-11*</b>                  | <b>Gleb MALYGIN and Elena BELENKAYA</b>         | Magnetosphere of the brown dwarf 15 Sge b in a system with a solar-type central star                                                                                                    | 15.00-15.20        |
| <b>17MS3-EP-12*</b>                  | <b>Anton KROTOV and Elena BELENKAYA</b>         | Magnetosphere of Tau Bootis b in the paraboloid and MHD models                                                                                                                          | 15.20-15.40        |
| <b>17MS3-EP-13</b>                   | <b>Eduard KUZNETSOV</b>                         | Resonance properties of the compact four-planet system Kepler-51                                                                                                                        | 15.40-16.00        |
| <b>Coffee-break</b>                  |                                                 |                                                                                                                                                                                         | <b>16.00-16.20</b> |
| <b>17MS3-EP-14</b>                   | <b>Ildar SHAIKHISLAMOV et al</b>                | Modeling transit absorption in H I and He I lines at atmospheres of hot exoplanets following super-flare                                                                                | 16.20-16.40        |
| <b>17MS3-EP-15</b>                   | <b>Roman EVDOKIMOV and Valery SHEMATOVICH</b>   | Residual hydrogen-helium atmospheres of mini-Neptunes: the possibility of formation and stability with taking into account various thermal loss mechanisms and the interior composition | 16.40-17.00        |
| <b>17MS3-EP-16</b>                   | <b>Roman EVDOKIMOV and Valery SHEMATOVICH</b>   | Estimate of the influence of interior composition on the thermal atmospheric mass-loss for mini-Neptunes                                                                                | 17.00-17.20        |
| <b>17MS3-EP-PS-13</b>                | <b>Danial RAHBARMAH</b>                         | Ground-Based Spectroscopic Detection of Jupiter-like Planets Orbiting Contact Binary Stars: Minimum Instrumental Requirements and Observational Constraints                             | 17.20-17.30        |
| <b>17MS3-EP-PS-14</b>                | <b>Aida RAKIAN</b>                              | Searching for Circumbinary Planets Around Contact Binary Stars: Methodology, Challenges, and Detection Limits                                                                           | 17.30-17.40        |

\* — Participant in the Early Career Researcher Contest

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| <b>Wednesday, 14 October 2026</b>                                     |                                                 |                                                                                                                                                              |                    |
| <b>Session 5. SOLAR SYSTEM IN THE LAB</b>                             |                                                 |                                                                                                                                                              | <b>10.00-15.40</b> |
| <b>Convener: Mikhail GERASIMOV<br/>conference hall, second floor</b>  |                                                 |                                                                                                                                                              |                    |
| <b>17MS3-SS-01*</b>                                                   | <b>Ivan AGAPKIN et al</b>                       | Microwave sintering of lunar soil analogue VI-LH1                                                                                                            | 10.00-10.20        |
| <b>17MS3-SS-02</b>                                                    | <b>Nina SKVORTSOVA et al</b>                    | Simulation experiments using powerful pulsed gyrotrons for the deposition of lunar dust on metal plates                                                      | 10.20-10.40        |
| <b>17MS3-SS-03</b>                                                    | <b>Sergey VOROPAEV et al</b>                    | Evaluation of mid-IR spectra of natural silicates for remote sensing of the Moon                                                                             | 10.40-11.00        |
| <b>17MS3-SS-04</b>                                                    | <b>Vladimir SHKLOVER and Mikhail GERASIMOV</b>  | New frontiers in the microstructural studies of lunar regolith / <i>Invited talk</i> /                                                                       | 11.00-11.30        |
| <b>Coffee-break</b>                                                   |                                                 |                                                                                                                                                              | <b>11.30-12.00</b> |
| <b>17MS3-SS-05</b>                                                    | <b>Valery SHUVALOV and Boris IVANOV</b>         | Impact structures on Venus as a result of asteroid destruction in the atmosphere                                                                             | 12.00-12.20        |
| <b>17MS3-SS-06</b>                                                    | <b>Vladimir SVETSOV</b>                         | Impact erosion of ocean on early Earth                                                                                                                       | 12.20-12.40        |
| <b>17MS3-SS-07</b>                                                    | <b>Egor SOROKIN</b>                             | Mathematical Modeling of a Micrometeorite Impact                                                                                                             | 12.40-13.00        |
| <b>Lunch</b>                                                          |                                                 |                                                                                                                                                              | <b>13.00-14.00</b> |
| <b>17MS3-SS-08</b>                                                    | <b>Evgeniya PETROVA et al</b>                   | Experimental modeling of the formation of the fusion crust of stony meteorites                                                                               | 14.00-14.20        |
| <b>17MS3-SS-09</b>                                                    | <b>Maxim ZAITSEV et al</b>                      | On organic compounds formation induced by the microwave breakdown and plasma-dust clouds generated from nitrogen – carbon dioxide atmospheres and peridotite | 14.20-14.40        |
| <b>17MS3-SS-10*</b>                                                   | <b>Anna KUZOVCHIKOVA et al</b>                  | Selection of mineral supplements for lunar regolith simulants improving the conditions of microwave breakdown and the formation of plasma-dust clouds        | 14.40-15.00        |
| <b>17MS3-SS-11</b>                                                    | <b>Anastasia BAKHMUTOVA et al</b>               | Synthesis of carbon nanotubes on meteorite metal via alcohol decomposition                                                                                   | 15.00-15.20        |
| <b>17MS3-SS-12</b>                                                    | <b>Alexander LAVRUKHIN et al</b>                | Mercury's magnetospheric magnetic field after the six BepiColombo flybys                                                                                     | 15.20-15.40        |
| <b>Coffee-break</b>                                                   |                                                 |                                                                                                                                                              | <b>15.40-16.20</b> |
| <b>Session 6. EXOSPHERES OF AIRLESS BODIES SESSION</b>                |                                                 |                                                                                                                                                              | <b>16.20-18.00</b> |
| <b>Convener: Alexander ZAKHAROV<br/>conference hall, second floor</b> |                                                 |                                                                                                                                                              |                    |
| <b>17MS3-ES-01</b>                                                    | <b>Alexey BEREZHNOY et al</b>                   | About initial conditions of expansion of impact-produced clouds                                                                                              | 16.20-16.40        |
| <b>17MS3-ES-02</b>                                                    | <b>Vladimir BUSAREV et al</b>                   | Further evidence of dust activity of main-belt asteroids from their reflectance spectra                                                                      | 16.40-17.00        |
| <b>17MS3-ES-03</b>                                                    | <b>Alexandr SOKOLOV et al</b>                   | Simulation experiments on deposition of LMS-1D regolith particles on the surface of solar panels in gyrotron discharge                                       | 17.00-17.20        |
| <b>17MS3-ES-04</b>                                                    | <b>Ilia KUZNETSOV et al</b>                     | Lunar dust activation processes: Experimental approach                                                                                                       | 17.20-17.40        |
| <b>17MS3-ES-05*</b>                                                   | <b>Stanislav KUZNETSOV and Vladimir BUSAREV</b> | Application of the Particle-in-Cell method to model electrostatic field near airless bodies                                                                  | 17.40-18.00        |
| <b>POSTER SESSION<br/>exhibition hall, ground floor</b>               |                                                 |                                                                                                                                                              | <b>18.00-20.00</b> |

\* — Participant in the Early Career Researcher Contest

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| <b>Wednesday, 14 October 2026</b>    |                                                |                                                                                                                                                                                                 |                    |
| <b>Session 7. ASTROBIOLOGY</b>       |                                                |                                                                                                                                                                                                 | <b>10.00-15.20</b> |
| <b>Convener: Oleg KOTSYURBENKO</b>   |                                                |                                                                                                                                                                                                 |                    |
| <b>exhibition hall, ground floor</b> |                                                |                                                                                                                                                                                                 |                    |
| <b>17MS3-AB-01</b>                   | <b>Oleg GUSEV</b>                              | Single-cell level mechanisms of tolerance to extreme desiccation: how a midge can fly to Mars / <i>Invited talk</i> /                                                                           | 10.00-10.40        |
| <b>17MS3-AB-02</b>                   | <b>Alexander GURIDOV and S.PODDUBKO</b>        | Survival of archaea and bacteria under outer space conditions of a polar Earth orbit on the exterior of the BION-M No. 2 spacecraft                                                             | 10.40-11.00        |
| <b>17MS3-AB-03</b>                   | <b>Mikhail KARGANOV et al</b>                  | Fragmentation of Lambda phage dry DNA during exposure outside and inside the Bion-M no. 2 satellite                                                                                             | 11.00-11.20        |
| <b>17MS3-AB-04</b>                   | <b>Daniil BARBASHIN et al</b>                  | Preliminary Results of GEOHI RAS Experiments Aboard Bion-M No. 2                                                                                                                                | 11.20-11.40        |
| <b>Coffee-break</b>                  |                                                |                                                                                                                                                                                                 | <b>11.40-12.00</b> |
| <b>17MS3-AB-05</b>                   | <b>Yuming FU et al</b>                         | Sequential exposure reveals stage-specific effects of simulated microgravity and X-ray irradiation on <i>Bacillus mojavensis</i> spore revival                                                  | 12.00-12.20        |
| <b>17MS3-AB-06</b>                   | <b>Petar EFTIMOV and N. STEFANOVA</b>          | Early embryogenesis in microgravity conditions -from biophysics to signal pathways                                                                                                              | 12.20-12.40        |
| <b>17MS3-AB-07*</b>                  | <b>Mikhail ZARUBIN and E.KRAVCHENKO</b>        | Tardigrade extreme stress tolerance: implications for radiation biophysics and spaceflight studies                                                                                              | 12.40-13.00        |
| <b>Lunch</b>                         |                                                |                                                                                                                                                                                                 | <b>13.00-14.00</b> |
| <b>17MS3-AB-08</b>                   | <b>Sergey BULAT et al</b>                      | Questioned microbial communities of the subglacial Antarctic Lake Vostok water following 1st lake unsealing: Re-evaluation of previous finds and discovering new ones using nanopore sequencing | 14.00-14.20        |
| <b>17MS3-AB-09</b>                   | <b>Oleg KOTSYURBENKO et al</b>                 | Astrobiological Research as Part of the Venera-D Space Mission                                                                                                                                  | 14.20-14.40        |
| <b>17MS3-AB-10</b>                   | <b>Alexander SAFRONOV</b>                      | Space mission: From developing the basic principles of creating habitable planets to the search for intelligent worlds                                                                          | 14.40-15.00        |
| <b>17MS3-AB-11</b>                   | <b>Elena KADYSHEVICH and Victor OSTROVSKII</b> | Life Origination Hydrate Theory: living-matter origination and development and possible signatures of planetary habitability                                                                    | 15.00-15.20        |
| <b>Coffee-break</b>                  |                                                |                                                                                                                                                                                                 | <b>15.40-16.20</b> |
| <b>POSTER SESSION</b>                |                                                |                                                                                                                                                                                                 | <b>18.00-20.00</b> |
| <b>exhibition hall, ground floor</b> |                                                |                                                                                                                                                                                                 |                    |

\* — Participant in the Early Career Researcher Contest

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|--------------------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------|
| Thursday, 15 October 2026                                                            |                                                   |                                                                                                                                  |             |
| Session 8. SMALL BODIES INCLUDING SPACE DUST                                         |                                                   |                                                                                                                                  | 10.00-17.00 |
| Conveners: Alexander BASILEVSKY, Alexander ZAKHAROV<br>conference hall, second floor |                                                   |                                                                                                                                  |             |
| 17MS3-SB-01*                                                                         | Marina SHCHERBINA<br>and N. KISELEV               | New Public Database of Asteroid Polarimetric Observations: Structure, Content, and Scientific Application                        | 10.00-10.15 |
| 17MS3-SB-02                                                                          | Olga TURCHINSKAYA<br>et al                        | Multiscale 3d modelling of tension-fracture and shear deformation systems on the surface of 67P comet                            | 10.15-10.30 |
| 17MS3-SB-03                                                                          | Maria KIRSANOVA et al                             | Modeling of H <sub>2</sub> O and CH <sub>3</sub> OH Emission Lines in the Coma of a Comet for the Submillimeter Wavelength Range | 10.30-10.45 |
| 17MS3-SB-04                                                                          | Sergey POPEL et al                                | Dusty plasmas at comet nucleus: specific dusty plasma effects and influence of dust particle chemical composition                | 10.45-11.00 |
| 17MS3-SB-05*                                                                         | Maryan NASTARAN<br>et al                          | Investigating the structure, microstructure and shock characteristics in the Lut desert chondrite meteorite                      | 11.00-11.15 |
| 17MS3-SB-06                                                                          | Anna KARTASHOVA<br>et al                          | Observations of Small Bodies of the Solar System at the Terskol and Sanglokh Observatories                                       | 11.15-11.30 |
| Coffee-break                                                                         |                                                   |                                                                                                                                  | 11.30-12.00 |
| 17MS3-SB-07                                                                          | Olga POPOVA and<br>D. GLAZACHEV                   | Classification of UGS-observed fireballs                                                                                         | 12.00-12.15 |
| 17MS3-SB-08*                                                                         | Olga CHERNENKO<br>et al                           | Trajectory Design for the Application of Earth-Resonant Asteroids in Planetary Defense                                           | 12.15-12.30 |
| 17MS3-SB-09*                                                                         | Maryan NASTARAN<br>et al                          | Asteroid Rotation Periods: Statistical Analysis in the Diameter-Spin Distribution                                                | 12.30-12.45 |
| 17MS3-SB-10                                                                          | Marina SHCHERBINA<br>et al                        | Polarimetric and Photometric Characteristics of the Interstellar Comet 3I/ATLAS: Key Features / <i>Invited talk</i> /            | 12.45-13.00 |
| Lunch                                                                                |                                                   |                                                                                                                                  | 13.00-14.00 |
| 17MS3-SB-11                                                                          | Boris SHUSTOV et al                               | On detection strategy of dangerous asteroids                                                                                     | 14.00-14.15 |
| 17MS3-SB-12                                                                          | Maria SERGIENKO<br>et al                          | The Southern Delta Aquariids Meteoroid Stream                                                                                    | 14.15-14.30 |
| 17MS3-SB-13                                                                          | Elena PODOBNAYA<br>et al                          | Size frequency distribution of fresh impact clusters on Mars                                                                     | 14.30-14.45 |
| 17MS3-SB-14*                                                                         | Gleb KUCHEROV et al                               | On the origin of the discovered 250-km-radius plutino atmosphere                                                                 | 14.45-15.00 |
| 17MS3-SB-15                                                                          | Maxim NYRTSOV et al                               | Measuring Crater Morphometry on Irregular Bodies: Reference Surfaces, Projections, and Distortion                                | 15.00-15.15 |
| 17MS3-SB-16                                                                          | Sergei IPATOV                                     | Migration of bodies from the zone of the giant planets to the terrestrial planets and the Moon                                   | 15.15-15.30 |
| 17MS3-SB-17                                                                          | Nadezhda<br>LYASHENKO et al                       | Dust migration from the outer Solar System under the interstellar gas cloud encounter                                            | 15.30-15.45 |
| 17MS3-SB-18                                                                          | Yulia REZNICHENKO<br>et al                        | Dusty plasma clouds on Venus, the Earth and Mars                                                                                 | 15.45-16.00 |
| Coffee-break                                                                         |                                                   |                                                                                                                                  | 16.00-16.30 |
| 17MS3-SB-19                                                                          | Yuriy CHETVERIKOV<br>et al                        | Monitoring of cosmic dust fallout in Antarctica and global dust emissions                                                        | 16.30-16.45 |
| 17MS3-SB-20                                                                          | Nuraddin<br>ADIGOZALOV and<br>Vladislav SIDORENKO | Co-orbital population of Venus: presumed members and their possible secular evolution                                            | 16.45-17.00 |
| RECEPTION                                                                            |                                                   |                                                                                                                                  | 17.00-20.00 |

\* — Participant in the Early Career Researcher Contest

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|---------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <b>Thursday, 15 October 2026</b>                                    |                                              |                                                                                                                                                                                           |                    |
| <b>Session 9. PLANETARY MISSIONS AND SCIENTIFIC INSTRUMENTATION</b> |                                              |                                                                                                                                                                                           | <b>10.00-17.00</b> |
| <b>Convener: Oleg KORABLEV<br/>exhibition hall, ground floor</b>    |                                              |                                                                                                                                                                                           |                    |
| <b>17MS3-MI-01</b>                                                  | <b>Hanlin YE and<br/>Jinsong PING</b>        | New Window of Earth Monitoring from Lunar North Pole                                                                                                                                      | 10.00-10.20        |
| <b>17MS3-MI-02*</b>                                                 | <b>Ekaterina KAZANTSEVA<br/>et al</b>        | Locating the Blue Ghost M1 Lander on the Lunar Surface Using Radio Interferometric Measurements                                                                                           | 10.20-10.40        |
| <b>17MS3-MI-03</b>                                                  | <b>Olga TURCHINSKAYA<br/>et al</b>           | Proposed Route for a Heavy Scientific Rover at the Lunar South Pole: Travel-Time Assessment and Preliminary Operational Timeline                                                          | 10.40-11.00        |
| <b>17MS3-MI-04</b>                                                  | <b>Andrey SHUGAROV et al</b>                 | Lightweight Lunar Ultraviolet Telescope (LLUT-150) project                                                                                                                                | 11.00-11.20        |
| <b>17MS3-MI-05</b>                                                  | <b>Andrey GAROV et al</b>                    | Joint Luna Data Centre (JLDC): Processing and Visualization of Topographic Information of the Celestial Bodies of the Solar System in Planetary Data Geoportal                            | 11.20-11.40        |
| <b>Coffee-break</b>                                                 |                                              |                                                                                                                                                                                           | <b>11.40-12.00</b> |
| <b>17MS3-MI-06</b>                                                  | <b>Jordanka SEMKOVA<br/>et al</b>            | Summary of 10-years observation of the radiation environment onboard ExoMars TGO                                                                                                          | 12.00-12.20        |
| <b>17MS3-MI-07</b>                                                  | <b>Kullapha<br/>CHAIWONGKHOT<br/>et al</b>   | Geant4-Based Design Optimization and Performance Estimation of the Sino-Thai Energetic Photon Survey (STEPS) Compact Gamma-Ray Spectrometer Payload for the Chinese Space Station Mission | 12.20-12.40        |
| <b>17MS3-MI-08</b>                                                  | <b>Thanayuth<br/>PANYALERT et al</b>         | Environment Characterization for a Gamma-Ray Detector Payload on the China Space Station                                                                                                  | 12.40-13.00        |
| <b>Lunch</b>                                                        |                                              |                                                                                                                                                                                           | <b>13.00-14.00</b> |
| <b>17MS3-MI-09</b>                                                  | <b>Lev ZELENYYI et al</b>                    | The Venera-D Mission to Venus                                                                                                                                                             | 14.00-14.20        |
| <b>17MS3-MI-10</b>                                                  | <b>Evgeny NIKOLAEV<br/>et al</b>             | Feasibility of Using the Multi-Electrode Harmonized Kingdon Trap as a Mass Spectrometer for Planetary Research                                                                            | 14.20-14.40        |
| <b>17MS3-MI-11</b>                                                  | <b>Mikhail LUGININ et al</b>                 | Nephelometers for Venus: a Review in the Context of the Upcoming Venera-D Mission                                                                                                         | 14.40-15.00        |
| <b>17MS3-MI-12</b>                                                  | <b>Alexander<br/>TROKHIMOVSKIY<br/>et al</b> | Infrared Studies of the Venusian Atmosphere Using the VIKA and VIRAL Instruments                                                                                                          | 15.00-15.20        |
| <b>17MS3-MI-13*</b>                                                 | <b>Zhiquan YUAN</b>                          | Microcomb-based mid-infrared dual-comb spectroscopy with GHz resolution                                                                                                                   | 15.20-15.40        |
| <b>Coffee-break</b>                                                 |                                              |                                                                                                                                                                                           | <b>15.40-16.20</b> |
| <b>Discussion</b>                                                   |                                              |                                                                                                                                                                                           | <b>16.20-17.00</b> |
| <b>RECEPTION</b>                                                    |                                              |                                                                                                                                                                                           | <b>17.00-20.00</b> |

\* — Participant in the Early Career Researcher Contest

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|-----------------------------------------------------------------------------------------|--------------------|--|
| <b>Friday, 16 October 2026</b>                                                          |                    |  |
| <b>Round Table: Venera-D: optimal entry coordinates of the descent**</b>                | <b>11.00-13.00</b> |  |
| <b>Convener: Dmitry GORINOV</b>                                                         |                    |  |
| <b>conference hall, second floor</b>                                                    |                    |  |
| <b>Coffee-break</b>                                                                     | <b>11.40-12.00</b> |  |
| <b>Round Table: Venera-D: optimal entry coordinates of the descent** (Continuation)</b> |                    |  |
| <b>Lunch</b>                                                                            | <b>13.00-14.00</b> |  |
| <b>Round Table: Astrobiology in Russia: prospects for development**</b>                 | <b>14.00-16.00</b> |  |
| <b>Convener: Oleg KOTSYURBENKO</b>                                                      |                    |  |
| <b>conference hall, second floor</b>                                                    |                    |  |
| <b>Coffee-break</b>                                                                     | <b>16.00-16.20</b> |  |

\*\*in Russian

**POSTER SESSION/ IKI Exhibition hall, ground floor****12 October 18:30-20:30, 14 October 18:00-20:00****ATMOSPHERES OF PLANETS SESSION**

|              |                            |                                                                                                                                                                                                                                               |
|--------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 17MS3-PS-01* | Aliaksei SVIACHKO et al    | Detection Limits of Trace Gas Constituents in Venus Mesosphere modeled for a Solar Occultation Experiment in the Infrared                                                                                                                     |
| 17MS3-PS-02  | Alexander TERTYSHNIKOV     | Hydrogen density field at the altitude of the Meteor-2-4 spacecraft in January 2025                                                                                                                                                           |
| 17MS3-PS-03  | Vladimir VDOVICHENKO et al | Spectral observations of Titan and Saturn in 2024                                                                                                                                                                                             |
| 17MS3-PS-04  | Vladimir VDOVICHENKO et al | Features of Methane and Ammonia Absorption along Jupiter's Central Meridian and in the Great Red Spot in 2014–2024                                                                                                                            |
| 17MS3-PS-05  | Vladimir OGIBALOV          | Influence of the redistribution of aerosols in altitude within the radiative transfer problem in the NIR bands of CO <sub>2</sub> and CO molecules under breakdown of vibrational LTE in the daytime Martian atmosphere                       |
| 17MS3-PS-06  | Vladimir OGIBALOV          | Method for solution of the radiative transfer problem in the rovibrational bands of the CO <sub>2</sub> and CO molecules under breakdown of vibrational LTE in the Martian atmosphere with taking account of radiation extinction by aerosols |

**INTERNAL STRUCTURE OF PLANETS AND MOONS**

|             |                      |                                                                                  |
|-------------|----------------------|----------------------------------------------------------------------------------|
| 17MS3-PS-07 | Tamara GUDKOVA et al | Search for seismic activity on Venus by pressure perturbations in the atmosphere |
|-------------|----------------------|----------------------------------------------------------------------------------|

**SURFACES OF PLANETS AND MOONS**

|              |                                          |                                                                                                                            |
|--------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| 17MS3-PS-08  | Alexander KRASILNIKOV and Mikhail IVANOV | Determination of the mixing factor of local and foreign material in the Langrenus, Cavalerius and Theophilus crater ejecta |
| 17MS3-PS-09* | Alexander VOZISOV and Mikhail IVANOV     | Morphology and topographic configuration of the Pallacopas Vallis fluvial system, Mars: Preliminary results                |
| 17MS3-PS-10  | Alexander KOSOV et al                    | Radio science experiment on Luna-26 orbiter, Methods and accuracy of gravitation field measurements                        |
| 17MS3-PS-11  | Yury NEFEDYEV et al                      | Multiparameter harmonic model of asteroid Ryugu using data from the "Hayabusa2" space mission                              |
| 17MS3-PS-12* | Changqing DING et al                     | Lunar Near-Surface Radar Sounding Using Ballistic Hopper Trajectories                                                      |

**EXTRASOLAR PLANETS**

|             |                  |                                                                                                                                                             |
|-------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 17MS3-PS-13 | Danial RAHBARMAH | Ground-Based Spectroscopic Detection of Jupiter-like Planets Orbiting Contact Binary Stars: Minimum Instrumental Requirements and Observational Constraints |
| 17MS3-PS-14 | Aida RAKIAN      | Searching for Circumbinary Planets Around Contact Binary Stars: Methodology, Challenges, and Detection Limits                                               |

**SOLAR SYSTEM IN THE LAB**

|              |                               |                                                                                               |
|--------------|-------------------------------|-----------------------------------------------------------------------------------------------|
| 17MS3-PS-15  | Victor GROKHOVSKY et al       | Comparison of the metal structure in the mesosiderites Catalina 500 (A3) and Vaca Muerta (B1) |
| 17MS3-PS-16  | Dmitry MOISEENKO et al        | Laboratory simulation of ions and neutral particles interaction with different materials      |
| 17MS3-PS-17* | Razilia MUFTAKHETDINOVA et al | On the dynamic strength of meteorites                                                         |
| 17MS3-PS-18* | Ivan AGAPKIN et al            | Concentrated solar-simulated sintering of lunar soil analogue VI-LH1                          |

**SMALL BODIES INCLUDING SPACE DUST**

|             |                                  |                                                                                                       |
|-------------|----------------------------------|-------------------------------------------------------------------------------------------------------|
| 17MS3-PS-19 | Alberto VODNIZA and L. CHAVES    | Study of comet 3I/Atlas                                                                               |
| 17MS3-PS-20 | Sergey KOPNIN and Sergey POPEL   | Dust particle charging in Jovian magnetospheric plasmas                                               |
| 17MS3-PS-21 | Yuri BONDARENKO and D. MARSHALOV | Physical characterization of Near-Earth Asteroid (163899) 2003 SD220 from bistatic radar observations |
| 17MS3-PS-22 | Elena BAKANAS et al              | Photometric observations of comet C/2022 N2 (PANSTARRS)                                               |

**PLANETARY MISSIONS AND SCIENTIFIC INSTRUMENTATION**

|              |                            |                                                                                                                                     |
|--------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 17MS3-PS-23* | Egor TARASOV et al         | Hardware–Software Complex of the Check-Out Equipment for Ground Testing of the Sampling Device of the Luna-27 Lunar Lander          |
| 17MS3-PS-24  | Daniil BARBASHIN et al     | Development of Fungal Biotechnologies for Lunar Exploration                                                                         |
| 17MS3-PS-25  | Sergei KULIKOV et al       | The VAMP experiment: Magnetic field measurements onboard the Venus-D orbiter                                                        |
| 17MS3-PS-26* | Vladislav ZUBKO et al      | Feasibility of Reaching Extreme Trans Neptunian Objects Using Multi-Planet Gravity Assists                                          |
| 17MS3-PS-27* | Vladislav ZUBKO et al      | Low-Energy Multi-Asteroid Missions Using Resonant Orbits, Venus Gravity Assists and Split-Probe Deployment                          |
| 17MS3-PS-28* | Jiangchao YUAN and Ge DONG | Low-Altitude Rapid Terrain Exploration: A Portable Jetpack Platform with Adaptive Propulsion Control                                |
| 17MS3-PS-29* | Paparin JAMLONGKUL et al   | Preliminary Geant4 simulation study of gamma-ray responses in lunar environment using the MATCH detector onboard Chang'E-7 orbiter  |
| 17MS3-PS-30* | Pradiphat MUANGHA et al    | Simulation of the ALIGN Payload for Chang'E-8: Neutron-Gamma Discrimination and Background Effects from a Radioisotope Heater Units |

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