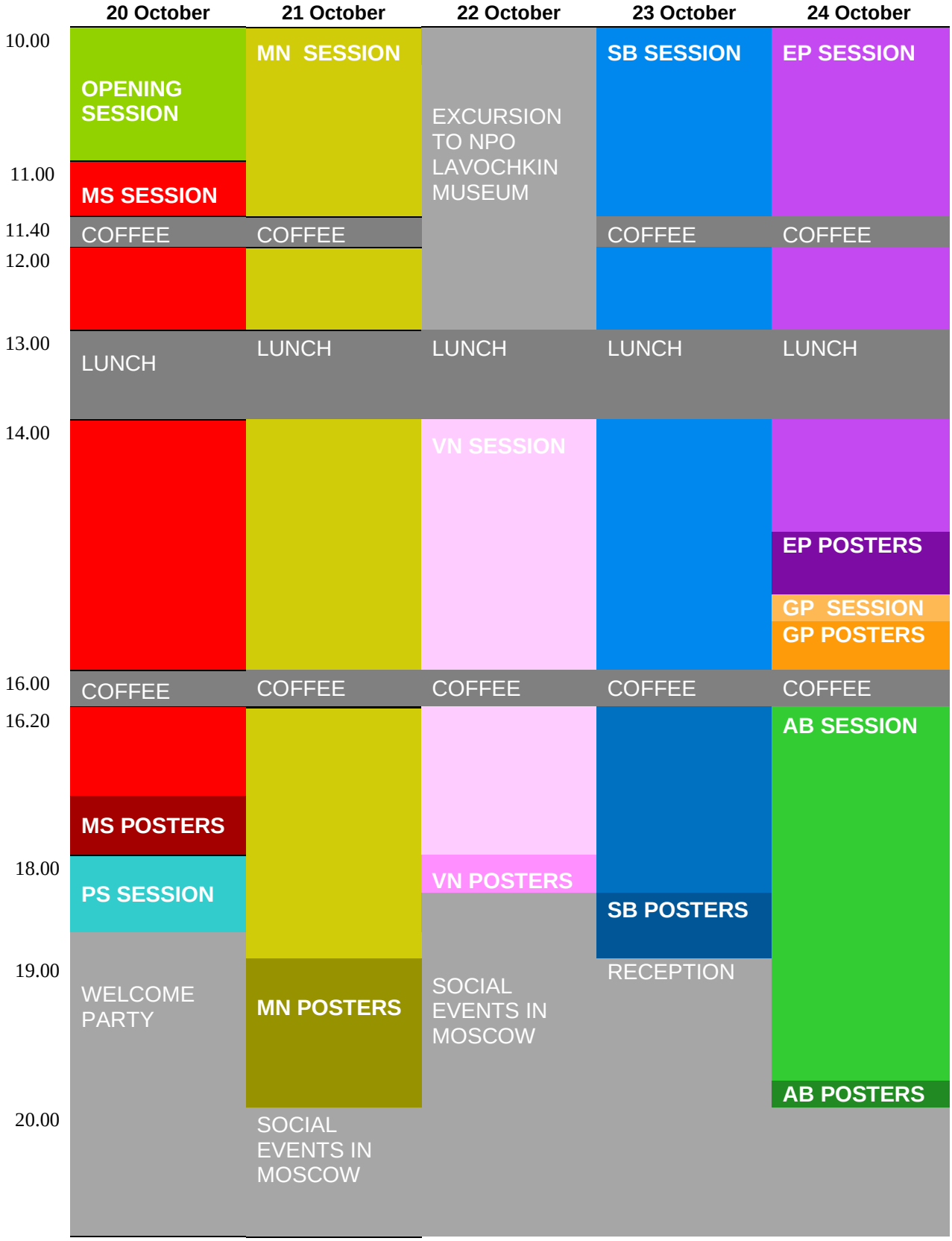
Overview 16M-S^3 Program
THE SIXTEENTH MOSCOW SOLAR SYSTEM SYMPOSIUM (16M-S^3)
IKI RAS, 20-24 October 2025



MS SESSION: MARS SESSION
MN SESSION: MOON AND MERCURY SESSION
VN SESSION: VENUS SESSION
SB SESSION: SMALL BODIES (INCLUDING COSMIC DUST) SESSION
EP SESSION: EXTRASOLAR PLANETS SESSION
GP SESSION: GIANT PLANETS SESSION
AB SESSION: ASTROBIOLOGY SESSION
PS SESSION: POSTER SESSION FOR ALL SESSIONS

	Monday, 20 October 2025		
	OPENING SESSION		**10.00-11.00**
	Lev ZELENYI	Opening Remarks	
	Ji WU	Discovering the Sky at the Longest wavelength (DSL) (**Plenary Report)**	
	Session 1. MARS		**11.00-18.05**
	Convener: Oleg KORABLEV **conference hall, second floor**		
16MS3-MS-01	**Anna FEDOROVA et al**	Long-term observations of aerosol vertical distribution on Mars by SPICAM IR on Mars-Express	11.00-11.15
16MS3-MS-02	**Alexander TROKHIMOVSKIY and Oleg KORABLEV**	The ACAE spectrometers for Tianwen-3 Mars mission	11.15-11.30
	Coffee-break		**11.30-12.00**
16MS3-MS-03	**Mikhail LUGININ et al**	Evidence of bimodality in Martian water ice clouds from the ACS/TGO solar occultation observations	12.00-12.15
16MS3-MS-04	**Mariya ZHARIKOVA et al**	Comparison of the MAOAM water vapor modeling results with ExoMars ACS data	12.15-12.30
16MS3-MS-05	**Ekaterina STARICHENKO et al**	The vertical damping of gravity waves in the Martian atmosphere from the ACS/TGO solar occultation experiment	12.30-12.45
16MS3-MS-06	**Artem ALIAKIN et al**	The influence of infrared transparency windows in the Martian atmosphere on the greenhouse effect	12:45-13:00
	Lunch		**13.00-14.00**
16MS3-MS-07	**Andrey KIRILLOV**	Electronic kinetics of carbon monoxide in the upper atmospheres of Mars and planets of Solar System	14.00-14.15
16MS3-MS-08	**Jordanka SEMKOVA et al**	Dose rate and particle flux of cosmic rays in the free space at 1.5 AU during different phases of solar activity according measurements by Liulin-MO dosimeter on Trace Gas Orbiter	14.15-14.30
16MS3-MS-09	**Paparin JAMLONGKUL et al**	Comparing MEREM radiation environment simulations with observations in Mars orbit	14.30-14.45
16MS3-MS-10	**Thanayuth PANYALERT et al**	Simulation-Based Study of RAAN Effects on Jovian Magnetic Connectivity: Application to the TW-3 MARCH Payload	14.45-15.00
16MS3-MS-11	**Alexey IVANYUKHIN and A.P. PLOKHIKH**	Improvement of radio communication performance via an accompanying relay spacecraft for round-trip missions to Mars	15.00-15.15
16MS3-MS-12	**Olga POPOVA et al**	Cluster analysis of recently formed Martian crater fields	15.15-15.30
16MS3-MS-13	**Elena PODOBNAYA et al**	Distribution of crater sizes in recently formed Martian crater fields	15:30-15:45
16MS3-MS-14	**Boris IVANOV**	New craters on Mars – 2024-2025 catalog expansion	15:45-16:00
	Coffee-break		**16.00-16.30**
16MS3-MS-15	**Georg SKREBEC**	Polycyclic nature of Martian outflow channel activity: chronostratigraphic constraints	16.30-16.45
16MS3-MS-16	**Jun CHU et al**	Impact-induced hydrothermal clay formation on Mars – geometrical evidence in Holden crater	16.45-17.00
16MS3-MS-17	**Alexander LOMAKIN et al**	Some miscellaneous findings in the SPICAM-IR nadir dataset	17.00-17.15
16MS3-MS-18	**Egor KULIK and Tamara GUDKOVA**	Effect on the Chandler Wobble period of Mars by mantle mineralogy and temperature profile	17.15-17.30
	POSTER SESSION, Session Mars **7 posters*5 min**		**17.30-18.05**
16MS3-MS -PS-01	**Alexey BATOV and Tamara GUDKOVA**	Non-hydrostatic stresses in the interiors of Mars excluding long-wave component	
16MS3-MS-PS-02	**Vladimir CHEPTSOV et al**	Perchlorate radiolysis under simulated Martian conditions	
16MS3-MS-PS-03	**Ekaterina FABER**	Deep Learning for Hyperspectral Unmixing of CRISM Data: Application to Mineral Mapping on Mars	
16MS3-MS-PS-04	**Polina SAZONOVA et al**	Effect of sodium perchlorate on soil prokaryotic complexes under limited available moisture conditions	
16MS3-MS-PS-05	**Alexander LOMAKIN et al**	Co-located SPICAM-IR and OMEGA observations of Martian polar caps	

16MS3-MS-PS-06	**Dariia KOSSOVA et al**	Structure of the upper Martian atmosphere from the homopause to the CO2 exobase as observed by ACS/TGO	
16MS3-MS-PS-07	**Vladimir OGIBALOV**	Radiative transfer in the NIR bands of CO2 and CO molecules under breakdown of vibrational LTE in the daytime Martian atmosphere. Effect of radiation absorption by aerosols on vibrational state populations	
	POSTER SESSION, for all Sessions		**18.05-18.35**
	WELCOME PARTY		**18.35-19.30**

	Tuesday, 21 October 2025		
	Session 2. MOON AND MERCURY **Conveners: Igor MITROFANOV, Maxim LITVAK** **conference hall, second floor**		**10.00-19.50**
16MS3-MN-01	**Alexander KOZYREV et al**	MGNS: the first data on Mercury's gammaray radiation	10.00-10.20
16MS3-MN-02	**Victor GUBAREV et al**	Galactic cosmic rays in the vicinity of Mercury	10.20-10.40
16MS3-MN-03	**Alexander LAVRUKHIN et al**	Determination of the Mercury's internal dipole parameters using MESSENGER spacecraft data	10.40-11.00
16MS3-MN-04	**Alexey BEREZHNOY et al**	About the origin of high-speed Ca atoms in the Hermean exosphere	11.00-11.20
16MS3-MN-05	**Lianghai XIE and Lei LI**	Monte Carlo simulation of the global migration of lunar hydroxyl from a magnetic-shielded solar wind source	11.20-11.40
	Coffee-break		**11.40-12.00**
16MS3-MN-06	**Alexander BASILEVSKY et al**	Surface morphology of partially shadowed floors of three near-pole lunar craters	12.00-12.20
16MS3-MN-07	**Svetlana DEMIDOVA et al**	Metal-sulfide mineralization of Chang'E-5 soil sample	12.20-12.40
16MS3-MN-08	**Alexander KRASILNIKOV and Mikhail IVANOV**	Determination of the mixing factor of local and foreign material in the Langrenus and Cavalerius craters ejecta	12.40-13.00
	Lunch		**13.00-14.00**
16MS3-MN-09	**Lev ZELENYI et al**	The lunar segment of the Federal Space science project	14.00-14.20
16MS3-MN-10	**Anatoly PETRUKOVICH et al**	Lunar exploration from polar orbit: Luna-26	14.20-14.40
16MS3-MN-11	**Igor MITROFANOV et al**	Science at the lunar poles: Luna-27.1 and Luna-27.2	14.40-15.00
16MS3-MN-12	**Mikhail SACHKOV et al**	Toward multiwavelength distributed astronomical observations from the Moon	15.00-15.20
16MS3-MN-13	**SenthilKumar MEGALA**	Salient Science outcome from Chandrayaan-3 Mission	15.20-15.40
16MS3-MN-14	**Huijuan WANG et al**	Preliminary considerations on the AI requirements in lunar-based astronomical observations at ILRS	15.40-16.00
	Coffee-break		**16.00-16.20**
16MS3-MN-15	**Habibullo ABDUSSAMATOV**	Permanent protection system of the astronaut spacesuit, optical surfaces and all other equipment against charged particles of lunar dust	16.20-16.40
16MS3-MN-16	**Alexander GUSEV and J.G.MENG**	Geophysical exploration of the Moon XI: 3D pits and caves	16.40-17.00
16MS3-MN-17	**Artem LYSENKO et al**	Experimental study of the dependence of the compressive strength of samples of the lunar regolith simulant on the parameters of selective laser melting	17.00-17.20
16MS3-MN-18	**Ivan AGAPKIN et al**	Preliminary Results on the Application of Selective Microwave Sintering for Lunar Soil Analogue VI-LH1	17.20-17.40
16MS3-MN-19	**Olga TURCHINSKAYA et al**	Comparative analysis of potential sites for lunar base deployment in the Northern Polar region	17.40-18.00
16MS3-MN-20	**Sergey VOROPAEV et al**	Remote sensing of lunar surface: the search for isotopic forms of water	18.00-18.20
16MS3-MN-21	**Alexey ANDREEV and Yury NEFEDYEV**	Development of a selenocentric dynamic reference system based on data from modern lunar missions and the application of regression modeling methods	18.20-18.40
16MS3-MN-22	**Li DENG et al**	Lunar orbit satellite formation: Distributed low frequency interferometric imaging spectrometer	18.40-19.00
	POSTER SESSION , Session Moon and Mercury **16 posters*3 min**		**19.00-19.50**
16MS3-MN-PS-01	**Lidiia LAKHMANOVA et al**	Basaltic clasts population in the lunar meteorite Dhofar 280	
16MS3-MN-PS-02	**Pradiphat MUANGHA et al**	Conceptual Design and Performance Simulation of a Dual-Particle Albedo Detector for Chang'e-8 Mission in the Lunar South Polar Region	

16MS3-MN-PS-03	**Ricardo Tomás FERREYRA and Michael SHPEKIN**	The underground propagation of new conical shock waves generated by the falling impactors on planets
16MS3-MN-PS-04	**Michael SHPEKIN and Ricardo Tomás FERREYRA**	The problem of propagation and some properties of shock waves generated by the falling impactors on the Solar System planets
16MS3-MN-PS-05	**Michael SHPEKIN and A.D. GABDULKHAKOV**	Aposteriory analysis of the orbital motion of the Apollo 17 spacecraft in near-lunar space
16MS3-MN-PS-06	**Bintang ALAM SEMESTA WISRAN**	The Technical Feasibility of Dust Tracking & Characterization Technology for Lunar Base Settlement
16MS3-MN-PS-07	**Ekaterina FEOKTISTOVA and M. P. SHCHERBINA**	Mons Muton on the Moon
16MS3-MN-PS-08	**Ekaterina GRISHAKINA**	Analysis of lunar craters larger than 10 km formed in the Moon's first billion years
16MS3-MN-PS-09	**Egor SOROKIN et al**	Chemical composition of metallic iron spherules in the lunar soil of Chang'e-5
16MS3-MN-PS-10	**Andrey MITUSOV and Vladislav KHRISANOV**	Breaking the Shadows: New Targets on Shackleton Crater Floor, lunar South Pole
16MS3-MN-PS-11	**Sergei IPATOV**	Exchange of ejected material between the Moon and the terrestrial planets
16MS3-MN-PS-12	**Vasily MARCHUK and O. YUSHKOVA**	Preliminary algorithm for data processing of the radar complex RLK-L
16MS3-MN-PS-13	**Alexander KOSOV et al**	Ground Station for Radio Science Experiment with Ka-band Receiver (PKD) onboard of Luna-26 orbiter
16MS3-MN-PS-14	**Mikhail MALENKOV et al**	Unloading, transporting and assembling lunar station modules on the lunar surface: design development of the mobile robotics concept
16MS3-MN-PS-15	**Marina KUZMICHEVA**	Magnetic field anomalies of Bosumtwi and Zhamanshin craters on the Earth: analysis based on numerical simulations
16MS3-MN-PS-16	**Alexey IVANYUKHIN and V. IVASHKIN**	Fast Free-Return Trajectories in the Earth-Moon System

	Wednesday, 22 October 2025		
	EXCURSION TO NPO LAVOCHKIN MUSEUM		**08.00-14.00**
	Session 3. VENUS **Conveners: Ludmila ZASOVA, Dmitry GORINOV** **conference hall, second floor**		**14.00-18.15**
16MS3-VN-01	**Lev ZELENYI et al**	The Venera-D mission for a comprehensive study of Venus	14.00-14.20
16MS3-VN-02	**Mikhail IVANOV and James HEAD**	The history of the long-wavelength topography on Venus	14.20-14.40
16MS3-VN-03	**Justin FILIBERTO et al**	Assessing the evidence for active volcanism on Venus: current limitations and prospects for future investigations	14.40-15.00
16MS3-VN-04	**Sriram BHIRAVARASU et al**	Venus surface studies using VSAR onboard ISRO's Venus Orbiter mission	15.00-15.20
16MS3-VN-05	**Danil MALYSHEV et al**	Clustering of Volcanoes and Coronae on Venus Based on Neural Network Processing	15.20-15.40
16MS3-VN-06	**Ivan BORONIN and Tamara GUDKOVA**	Modeling the Internal Structure of Venus Using the Monte Carlo Method	15.40-16.00
	Coffee-break		**16.00-16.20**
16MS3-VN-07	**Daria EVDOKIMOVA et al**	Venus lower atmosphere and surface from SPICAV-IR/VEx observations in NIR transparency windows at 0.8-1.3 μm	16.20-16.40
16MS3-VN-08	**Denis BELYAEV et al**	VIRAL experiment for ISRO's Venus Orbiter Mission: scientific concept	16.40-17.00
16MS3-VN-09	**Joshita SHARMA**	Long Duration Payload Bay for Venus Exploration	17.00-17.20
16MS3-VN-10	**Nikolay TKACHEV et al**	Simulation Modeling Application for the Design Analysis of the Operation of a Venus Exploration Aerobot	17.20-17.40
16MS3-VN-11	**Vladislav ZUBKO et al**	The Venus-asteroid resonance transfers for expanding the planetary exploration framework	17.20-18.00
	POSTER SESSION, Session Venus **5 posters*3 min**		**18.00-18.15**
16MS3-VN-PS-01	**Elizaveta STEPANOVA et al**	Thermal structure of the upper atmosphere of Venus from occultation experiments	
16MS3-VN-PS-02	**Evgeniya GUSEVA and Mikhail IVANOV**	Volcanic features of concentration regions of large volcanoes and coronae, Venus	
16MS3-VN-PS-03	**Arina SHIMOLINA et al**	1:500,000 scale mapping and analysis of radiating, circumferential and linear dyke swarm patterns of Beta Regio, Venus	
16MS3-VN-PS-04	**Tamara GUDKOVA and A.V. BATOV**	Non-hydrostatic stresses beneath Atla Regio and Beta Regio on Venus	
16MS3-VN-PS-05	**Vladimir OGIBALOV et al**	The effect of the contour shape of spectral lines on the emission in the 4.3 μm band of CO_2 molecules outgoing from the planetary atmosphere in the presence of macroscopic wind velocity gradient	

	Thursday, 23 October 2025		
	Session 4. SMALL BODIES (including cosmic dust) **Conveners: Alexander BASILEVSKY, Alexander ZAKHAROV** **conference hall, second floor**		**10.00-19.00**
16MS3-SB-01	**Sergey KRASILNIKOV et al**	Water Ice Exposure on the Surface of Comet 67P/Churyumov-Gerasimenko	10.00-10.15
16MS3-SB-02	**Gleb KUCHEROV et al**	Possibility of liquid water formation in icy bodies due to the process of rapid recombination of accumulated radicals	10.15-10.30
16MS3-SB-03	**Anatoliy PAVLOV et al**	Outbursts of icy bodies in Kuiper Belt and beyond, as possible new source of dust to explain New Horizons observations	10.30-10.45
16MS3-SB-04	**Vacheslav EMEL'YANENKO**	Distant trans-Neptunian objects produced by perturbations of migrating outer planets and massive planetesimals	10.45-11.00
16MS3-SB-05	**Alina MERKULOVA et al**	Cometary outbursts in the Early Solar System	11.00-11.15
16MS3-SB-06	**Sergey POPEL et al**	Dusty plasma formation near 67P/Churyumov-Gerasimenko comet: importance of albedo	11.15-11.30
	Coffee-break		**11.30-12.00**
16MS3-SB-07	**Maria KIRSANOVA and Ya. N. PAVLYUCHENKOV**	Pre-perihelion observations and interpretation of CH3OH, CO and HCN line emission in the Oort cloud comet C/2017 K2 (PANSTARRS)	12.00-12.15
16MS3-SB-08	**Alexey DROZDOV and N. V. EMELYANOV**	Calculation of the Pluto surface composition map based on the LEISA infrared spectrum of the New Horizons spacecraft	12.15-12.30
16MS3-SB-09	**Nikolai KISELEV et al**	Comparison of polarization phase dependence of NEA 2100 Ra-Shalom with the dependencies for others low-albedo NEAs	12.30-12.45
16MS3-SB-10	**Nuraddin ADIGOZALOV and Vladislav SIDORENKO**	Asteroids of the Hungaria family and the Earth's co-orbital population	12.45-13.00
	Lunch		**13.00-14.00**
16MS3-SB-11	**Maxim PUPKOV et al**	Designing halo orbits passing through the trajectories of near-Earth asteroids	14.00-14.15
16MS3-SB-12	**Alexander SUKHANOV**	On the Possibility of Flybys of a Large Number of Main Belt Asteroids	14.15-14.30
16MS3-SB-13	**Tatyana GALUSHINA et al**	About the influence of non-gravitation perturbations on the motion of asteroids approaching Jupiter	14.30-14.45
16MS3-SB-14	**Olga CHERNENKO et al**	Selection of near-Earth asteroids and initial trajectory design for transfer to Earth-resonant orbit	14.45-15.00
16MS3-SB-15	**Eduard KUZNETSOV et al**	Scenarios for the formation of the young Emilkovalski asteroid family	15.00-15.15
16MS3-SB-16	**Maksim KHOVRICHEV et al**	izMeteors: meteor event detection network and database	15.15-15.30
16MS3-SB-17	**Stanislav KUZNETSOV and Vladimir BUSAREV**	Modeling the dynamics of dust particles in the gravitational and electrostatic fields of a primitive asteroid taking into account the sublimation of water ice	15.30-15.45
16MS3-SB-18	**Anna KARTASHOVA and G. KOKHIROVA**	Meteor observations from Russia and Tajikistan stations	15.45-16.00
	Coffee-break		**16.00-16.20**
16MS3-SB-19	**Yuriy CHETVERIKOV et al**	Cosmic dust collection near Vostok station in Central Antarctica: Research problems and prospects	16.20-16.35
16MS3-SB-20	**Nikolay BORISOV**	Peculiarities of dynamics of charged dust grains ejected from the surfaces of Phobos and Deimos	16.35-16.50
16MS3-SB-21	**Evgeniya PETROVA and V. I. GROKHOVSKY**	Meteorite fusion crust as a result of the impact of ablation processes on the meteoroid substance	16.50-17.05
16MS3-SB-22	**Mohamad ABDELAAL et al**	Investigation of Electromagnetic Processes in Planetary Atmospheres	17.05-17.20
16MS3-SB-23	**Yulia SOROKOLETOVA et al**	Operation of a spacecraft with a parabolic solar sail for space debris removal	17.20-17.35
16MS3-SB-24	**Steven WIJAYA et al**	Application of Artificial Neural Network to Identify Orbital Resonances in the Motion of Artificial Earth Satellites	17.35-17.50
16MS3-SB-25	**Sergei IPATOV**	Migration of bodies ejected from Mercury and Venus	17.50-18.05
16MS3-SB-26	**Maxim NYRTSOV et al**	Coordinate system transformations in extraterrestrial cartography	18.05-18.20

	POSTER SESSION , Session Small Bodies (including cosmic dust)		**18.20-19.00**
	11 posters*3 min		
16MS3-SB-PS-01	**Anna KUZOVCHIKOVA et al**	Pyrrhotite and ilmenite as supplements for lunar regolith simulants improving the conditions of microwave breakdown and the formation of plasma-dust clouds	
16MS3-SB-PS-02	**Yangyang TIAN et al**	Algorithm for image segmentation of particle tracks in the dusty plasma near the surface of atmosphereless bodies	
16MS3-SB-PS-03	**Vladimir EFREMOV et al**	Estimating of the meteor parameters	
16MS3-SB-PS-04	**Tatiana MOROZOVA and Sergey POPEL**	Lower-hybrid drift waves in plasma of meteoroid tails in the Earth's ionosphere	
16MS3-SB-PS-05	**Yuri MEDVEDEV and S.R. PAVLOV**	Systematic Biases in Positional Observations of Interstellar Comet 3I/ATLAS	
16MS3-SB-PS-06	**Andrey DUBINSKY et al**	On Anomalous Dissipation in Dusty Plasmas in the Vicinity of Comet Nuclei and Active Asteroids	
16MS3-SB-PS-07	**Sergey KOPNIN et al**	Dust particles above the surface of Enceladus	
16MS3-SB-PS-08	**Yulia IZVEKOVA et al**	Solitons and periodic nonlinear dust acoustic waves near the satellites of Mars	
16MS3-SB-PS-09	**Yulia IZVEKOVA et al**	Nonlinear dust acoustic waves in Saturn's magnetosphere	
16MS3-SB-PS-10	**Nikolay PEROV and O. A. KIRSHINA**	Search for ordered trajectories of dust particles in the Sun and Mars system	
16MS3-SB-PS-11	**Maria SERGIENKO et al**	Dynamic evolution of Near-Earth asteroids associated with the σ-Capricornids meteoroid stream	
	RECEPTION		**19.00-21.00**

	Friday, 24 October 2025		
	Session 5. EXTRASOLAR PLANETS **Convener: Alexander TAVROV** **conference hall, second floor**		**10.00-15.25**
16MS3-EP-01	**Marina RUMENSKIKH et al**	Interpretation of absorption of hot exoplanets during the transit of helium tails	10.00-10.15
16MS3-EP-02	**Marina RUMENSKIKH et al**	Experiment on the modeling transit absorptions of hot exoplanets	10.15-10.25
16MS3-EP-03	**Ildar SHAIKHISLAMOV et al**	Complex place numerical modeling of hot exoplanet atmospheres and interpretation of multi-line transit observations	10.25-10.40
16MS3-EP-04	**Anton KROTOV and Elena BELENKAYA**	Comparison of the magnetosphere of Osiris in the paraboloid and MHD models	10.40-10.50
16MS3-EP-05	**Grigory TSURIKOV et al**	Search for habitable worlds: potentially observable biomarkers to probe in the atmospheres of exoplanets	10.50-11.05
16MS3-EP-06	**Grigory TSURIKOV et al**	Planetary magnetic field as a property of weakening the precipitating electrons flux into the Earth's atmosphere	11.05-11.20
16MS3-EP-07	**Alexander TAVROV et al**	Techniques for exoplanet direct imaging, updated analysis and the proposal for a high contrast imaging instrument onboard the WSO-UV 1.7 meter telescope	11.20-11.30
16MS3-EP-08	**Oleg YAKOVLEV et al**	Multicolor Photometric Validation of the Exoplanet Candidate around SOI-3	11.30-11.40
	Coffee-break		**11.40-12.00**
16MS3-EP-09	**Anastasiia IVANOVA et al**	Validation of exoplanet candidates using spectroscopic observations from BTA-6	12.00-12.10
16MS3-EP-10	**Vladislava ANANYEVA and Alexander TAVROV**	Mass distribution of giant planets in transit discovered by the TESS mission	12.10-12.20
16MS3-EP-11	**Lomara MAKSIMOVA et al**	Approach of the Orion Sword Complex (NGC 1977) to Stars with Planetary Systems (TOI-2796)	12.20-12.30
16MS3-EP-12	**Grigory MOROZOV and Elena BELENKAYA**	Characteristics of exoplanets depending on the spectral class of the parent star	12.30-12.45
16MS3-EP-13	**Elza BUSLAEVA and Elena BELENKAYA**	The Influence of Stellar Metallicity on Planet Formation	12.45-13.00
	Lunch		**13.00-14.00**
16MS3-EP-14	**Piero D'INCECCO et al**	Venus and Earth as laboratories for understanding terrestrial exoplanets: surface spectral signatures, planetary synergies, and the AVENGERS initiative	14.00-14.15
16MS3-EP-15	**Olga OLEYNIK and V. V. EMEL'YANENKO**	Migration of Earth-like planets in planetesimal disks causing the formation of debris disks	14.15-14.30
16MS3-EP-16	**Gleb MALYGIN et al**	Ultra-cool brown dwarfs with and without circum-substellar plasma disks: possible consequences	14.30-14.45
16MS3-EP-17	**Eduard KUZNETSOV and Alexander PERMINOV**	Stability and dynamics of the compact planetary system Kepler-51	14.45-15.00
16MS3-EP-18	**Roman EVDOKIMOV and Valery SHEMATOVICH**	The Influence of Water Content in the Cores of Mini-Neptunes on the Rate of Primary Atmosphere's Core-Powered Mass-Loss	15.00-15.15
	POSTER SESSION, Session Extrasolar Planets **2 posters*5 min**		**15.15-15.25**
16MS3-EP-PS-01	**Evdokiia SAVINTSEVA et al**	Numerical modeling of the hot Saturn atmosphere Hat-P-18b	
16MS3-EP-PS-02	**Valery KOTOV**	Motion of superfast exoplanets and Solar system	
	Session 6. GIANT PLANETS **Convener: Valery SHEMATOVICH** **conference hall, second floor**		**15.25-15.55**
16MS3-GP-01	**Alexander PERMINOV and Eduard KUZNETSOV**	The semi-analytical motion theory of major planets of the Solar system	15.25-15.45
	POSTER SESSION, Session Giant Planets **2 posters*5 min**		15.45-15.55
16MS3-GP-PS-01	**Sergey SALAMAKHIN and A.M. KARIMOV**	Features of methane and ammonia absorption along the central meridian of Jupiter and in the Great Red Spot in 2023	

16MS3-GP-PS-02	**Anastasiia IVANOVA et al**	Spatial variations of Jovian tropospheric ammonia obtained from SAO RAS observations	
	Coffee-break		**16.00-16.20**
	Session 7. ASTROBIOLOGY **Convener: Oleg KOTSYURBENKO** **conference hall, second floor**		**16.20-20.00**
16MS3-AB-01	**Vladimir KOMPANICHENKO**	Stimulation of the origin-of-life process by high-frequency oscillations in hydrothermal medium:suggested experiments	16.20-16.40
16MS3-AB-02	**Sohan JHEETA**	From Prebiotic Earth to Astroscience Empowerment: The NoRCEL Institute's Educational Journey Across the Global South	16.40-17.00
16MS3-AB-03	**Oleg KOTSYURBENKO**	Astroecology as a new scientific direction within astrobiology	17.00-17.20
16MS3-AB-04	**Anton VASYUNIN et al**	Theoretical and experimental studies of interstellar ices	17.20-17.40
16MS3-AB-05	**Varvara KARTEYEVA et al**	Nitrous oxide in interstellar ice	17.40-18.00
16MS3-AB-06	**Ruslan NAKIBOV et al**	Methane environment in interstellar ice	18.00-18.20
16MS3-AB-07	**Roman EVDOKIMOV and Valery SHEMATOVICH**	On the formation and stability of residual hydrogen-helium atmospheres of mini-Neptunes depending on possible atmospheric loss processes	18.20-18.40
16MS3-AB-08	**Ivan KOZLOV et al**	Effect of two-year exposure in Low Earth Orbit conditions on the prokaryotic community of grey forest soil	18.40-19.00
16MS3-AB-09	**Maxim ZAITSEV et al**	Abiotic synthesis of organic compounds in plasma-dust clouds initiated by microwave discharge in the mineral simulant of lunar regolith	19.00-19.20
16MS3-AB-10	**Tatiana MOROZOVA**	Alternative life forms under extreme conditions	19.20-19.40
	POSTER SESSION, Session Astrobiology **4 posters*5 min**		**19.40-20.00**
16MS3-AB-PS-01	**Vladimir CHEPTSOV et al**	Effect of perchlorate on bacteria radioresistance under simulated Martian conditions	
16MS3-AB-PS-02	**Valeria BADYA et al**	Remote sensing of Earth's ecosystems	
16MS3-AB-PS-03	**Polina BESOGONOVA et al**	Closed artificial ecosystems in space exploration	
16MS3-AB-PS-04	**Alexander TERTYSHNIKOV**	Maxima of strong meteor showers in blood markers	