

# Overview 11M-S<sup>3</sup> Program

## The Eleventh Moscow Solar System Symposium (11M-S<sup>3</sup>)

IKI RAS, 5-9 October 2020

	5 October	6 October	7 October	8 October	9 October	
9.00						
10.00	<b>Introduction</b>	<b>Session 2. Astrobiology(AB)</b>			<b>Session 6. Extrasolar Planets(EP)</b>	
	<b>Session 1. Mars (MS)</b>					
11.40		Coffee	Coffee	Coffee	Coffee	
12.00			<b>Poster Session</b>			
13.00		Lunch	Lunch	Lunch	Lunch	<b>Poster Session</b>
						Lunch
14.00						
16.00	Coffee	Coffee	Coffee	Coffee	Coffee	
16.20						
18.00						
	<b>Poster Session</b>	<b>Poster Session</b>	<b>Poster Session</b>	<b>Poster Session</b>	<b>Poster Session</b>	
19.00				<b>Concert</b>	<b>Poster Session</b>	
	<b>Welcome party</b>	Social events in Moscow	Social events in Moscow	<b>Reception</b>	Social events in Moscow	
20.00						

# 11M-S<sup>3</sup> Scientific Program

**Monday, 5 October 2020**

Lev Zelenyi                      Opening Remarks                      **10.00-10.15**

**Session 1. MARS**                      **10.15-18.30**

**Convener: Oleg KORABLEV**  
**conference hall, second floor**

**11MS3-MS-01**                      N. F. Abramov et al                      Ground testing of the landing platform television system of the ExoMars-2020 spacecraft                      10.15-10.30

**11MS3-MS-02**                      S. Y. Nikiforov et al                      Water content in the Martian subsurface along the NASA MSL traverse by neutron measurements                      10.30-10.45

**11MS3-MS-03**                      A. V. Malakhov et al                      Local water-rich areas in equatorial region of Mars as seen by FREND neutron spectrometer                      10:45-11:00

**11MS3-MS-04**                      Pascal Rosenblatt et al                      Measurements of Mars' CO<sub>2</sub> seasonal mass deposits at polar caps: a comparison between gravity and Neutron flux data                      11.00-11:15

**11MS3-MS-05**                      J. Semkova et al                      Radiation environment in the interplanetary space and Mars' orbit according FREND's Liulin-MO dosimeter aboard ExoMars TGO data                      11.15-11.30

**11MS3-MS-06**                      M.-P. Zorzano et al                      Comparison of space weather on Mars and Earth, towards a global monitoring: a feasibility study for ExoMars, using InSight and MSL                      11.30-11.45

**Coffee-break**                      **11.45-12.15**

**11MS3-MS-07**                      D.V. Titov et al                      Mars Express science highlights and future plans                      12.15-12:30

**11MS3-MS-08**                      S.Jimenez et al                      Solar wind at Mars and magnetic field interactions                      12.30-12.45

**11MS3-MS-09**                      Luis Vázquez                      From Space and Radiation to New Materials                      12.45-13.00

**11MS3-MS-10**                      M. Díaz Michelena et al                      Drone magnetometry: a new approach to study present and past conditions in the planetary bodies                      13:00-13:15

**11MS3-MS-11**                      A.K.Pavlov et al                      Combination of methane spontaneous emission and ion-molecular reactions as a possible way to explain the variations of methane concentration in Martian atmosphere                      13:15-13:30

**Lunch**                      **13.30-14.30**

**11MS3-MS-12**                      V.I. Shematovich and E.S. Kalinicheva                      Atmospheric escape of atomic oxygen during the auroral events at Mars                      14.30-14.45

**11MS3-MS-13**                      Boris Ivanov                      Martian dust activation due to air shock waves from small impacts                      14.45-15.00

**11MS3-MS-14**                      P. Vlasov et al                      Diurnal and seasonal evolution of Martian atmospheric thermal structure from ACS-TIRVIM experiment onboard TGO ExoMars                      15.00-15.15

**11MS3-MS-15**                      D. Belyaev                      Upper mesospheric water on Mars as measured by ACS TGO solar occultations                      15.15-15.30

**11MS3-MS-16**                      A. Trokhimovskiy                      First detection of HCl in the atmosphere of Mars by ACS TGO                      15.30-15.45

**11MS3-MS-17**                      V. A. Krasnopolsky                      Photochemistry of HCl in the Martian Atmosphere                      15.45-16.00

**Coffee-break**                      **16.00-16.30**

**11MS3-MS-18**                      M. Ivanov and H.Hiesinger                      Topographic characteristics and chronology of the Uzboi-Ladon fluvial system on Mars                      16.30-16.45

**11MS3-MS-19**                      J. Flahaut et al                      Identification and characterization of new feldspar-bearing rocks in the walls of Valles Marineris, Mars                      16.45-17.00

**11MS3-MS-20**                      James W.Head and Lionel Wilson                      Sulfates on Mars: a pyroclastic airfall model for origin, emplacement, and initial alteration of Valles Marineris interior layered deposits                      17.00-17.15

**11MS3-MS-21**                      James W.Head et al                      Geologic and climatologic history of early Mars: Recent developments, unknowns and directions for the next decade                      17:15-17:45

**11MS3-MS-22**                      James L. Dickson et al                      The formation of young Gullies on Mars by the melting and boiling of water at high obliquity                      17.45-18.00

**11MS3-MS-23**                      B. D. Boatwright and James W.Head                      Mars Crater Modification in the Late Noachian: Evidence for Cold-Based Crater Wall Glaciation and Endorheic Basin Formation                      18:00-18:15

**11MS3-MS-24**                      A. M. Palumbo and James W.Head                      Large impact basin-related climatic and surface effects on Mars: Argyre basin as a case study                      18:15-18:30

**POSTER SESSION , Session Mars**

**ONLINE DISCUSSION**                      **18.30-19.00**

<b>11MS3- MS -PS-01</b>	E Fedorova et al	Analysis of H <sub>2</sub> O transmission spectra in the Martian atmosphere as measured by the ACS-TIRVIM solar occultations
<b>11MS3- MS -PS-02</b>	E. D. Starichenko et al	Gravity wave activity in the Martian atmosphere at altitudes 10 - 160 km from ACS/TGO solar occultations
<b>11MS3- MS -PS-03</b>	A. M. Salnikov et al	Analysis of the magnetic field data of Mars
<b>11MS3- MS -PS-04</b>	T. Gudkova et al	Effect of third- and higher-order tide on the estimate of dissipative factor for Mars
<b>11MS3- MS -PS-05</b>	E.D. Podobnaya et al	Fresh Martian impact clusters
<b>11MS3- MS -PS-06</b>	V.Payet et al	Automated denoising for mineral identification on hyperspectral data
<b>11MS3- MS -PS-07</b>	M.Barthez et al	VNIR Spectroscopic analysis of analogue feldspathic rocks as a reference for the interpretation of Mars data
<b>11MS3- MS -PS-08</b>	G.Ito et al	Mineral mapping in Altiplano-Puna volcanic complex for Mars analog study
<b>11MS3- MS -PS-09</b>	J.L. Vazquez-Poletti et al	Advances in cloud computing for Mars data processing
<b>11MS3- MS =PS-10</b>	M.Velasco et al	Mathematical advances in fractional models for the Martian atmospheric dust dynamics
<b>11MS3- MS =PS-11</b>	I. Vinogradov et al	Martian multichannel diode laser spectrometer experiment for the ExoMars-2022 lander mission: M-DLS instrument fabrication and laboratory calibration results
<b>11MS3- MS -PS-12</b>	K.V. Zakharchenko et al	Diamond Detectors of Space Radiation: the Ways to counter the Polarization Effect

<b>Tuesday, 6 October 2020</b>			
<b>Session 2: ASTROBIOLOGY</b>			<b>10.00-13.00</b>
<b>Conveners: Elena VOROBYOVA, Oleg KOTSYURBENKO</b>			
<b>conference hall, second floor</b>			
<b>11MS3-AB-01</b>	Richard B. Hoover	Life in ice: implications to life on the Moon and small Solar System bodies	10.00-10.15
<b>11MS3-AB-02</b>	Maxim Zaitsev et al	On the formation and transformation of organic matter in the Solar System	10.15-10.30
<b>11MS3-AB-03</b>	Peter Wurz et al	A novel and compact laser desorption – mass spectrometry system for sensitive in situ detection of amino acids on extraterrestrial surfaces	10.30-10.45
<b>11MS3-AB-04</b>	Sergey Bulat et al	New microbial finds in the subglacial antarctic lake Vostok	10.45-11.00
<b>11MS3-AB-05</b>	N.E. Demidov et al	Sources of materials for the western delta of Jezero crater (Mars), astrobiological implication	11.00-11.15
<b>11MS3-AB-06</b>	Z.Ashrafzadeh et al	The effect of cosmic rays on the human hippocampus	11.15-11.30
<b>Coffee-break</b>			<b>11.30-12.00</b>
<b>POSTER SESSION , Session Astrobiology</b>			
<b>ONLINE DISCUSSION</b>			<b>12.00-12.20</b>
<b>11MS3-AB-PS-1</b>	V. Cheptsov et al	The stability of enzymes to the effect of ionizing radiation under simulated extraterrestrial conditions	
<b>11MS3- AB-PS-2</b>	E.I. Sukhova et al	Resistance of DT57C bacteriophage to irradiation by high-energy electrons	
<b>11MS3- AB-PS-3</b>	A. A. Belov et al	Microbial communities of Novaya Zemlya permafrost: physiological properties and astrobiological implication	
<b>POSTER SESSION , Session Solar wind interactions with planets and small bodies</b>			
<b>Convener: Oleg VAISBERG</b>			
<b>ONLINE DISCUSSION</b>			<b>12.20-13.00</b>
<b>11MS3-SW-PS-01</b>	V.I. Shematovich and D.V.Bisikalo	Efficiency of charge exchange between solar wind protons and the extended hydrogen corona of Mars	
<b>11MS3-SW-PS-02</b>	V. N. Gubenko and I.A.Kirillovch	Solar wind interaction with the Earth's high-latitude ionosphere during geomagnetic storm in June 2015 by the radio occultation data	
<b>11MS3-SW-PS-03</b>	N.P.Bulatova	On the movement of ensembles of objects by the spatio-temporal technology	
<b>11MS3-SW-PS-04</b>	I.B. Miroshnichenko et al	The influence of the parent star Ly $\alpha$ radiation on absorption in the H $\alpha$ line of the hot atmospheres HD189733b AND HD 209458b	
<b>11MS3-SW-PS-05</b>	T.I. Morozova and S.I.Popel	Dusty plasma processes associated with meteor showers in the Earth's atmosphere	
<b>11MS3-SW-PS-06</b>	R. Fausch et al	CHESS – constellation of CubeSats: analyzing the drivers of the Earth's exosphere with MS and GNSS	
<b>11MS3-SW-PS-07</b>	I.M. Minaev	Neutrino Telescope and the Sun	
<b>Lunch</b>			<b>13.00-14.00</b>
<b>Session 3. GIANT PLANETS</b>			<b>14.00-18.40</b>
<b>Convener: Scott BOLTON</b>			
<b>conference hall, second floor</b>			
<b>11MS3-GP-01</b>	Michel Blanc et al	Science goals and mission objectives for the future exploration of ice giants systems - a Horizon 2061 perspective	14.00-14.20
<b>11MS3-GP-02</b>	Michel Blanc et al	A preliminary study of MIT coupling at Jupiter based on Juno observations and modelling tools	14.20-14.40
<b>11MS3-GP-03</b>	Yohai Kaspi et al	Comparison of the deep atmospheric dynamics of Jupiter and Saturn in light of the Juno and Cassini gravity measurements	14.40-15.00
<b>11MS3-GP-04</b>	Alessandro Mura et al	Infrared observations of Jupiter's aurorae and atmosphere	15.00-15.20
<b>11MS3-GP-05</b>	Leigh N. Fletcher et al	Jupiter's temperate belt/zone contrasts at depth revealed by Juno	15.20-15.40
<b>11MS3-GP-06</b>	Tatiana Salnikova and S. Stepanov	Peculiar movement of a pair of Saturn satellites	15.40-16.00

<b>Coffee-break</b>			<b>16.00-16.20</b>
<b>11MS3-GP-07</b>	Scott Bolton and the Juno Science Team	Overview of Juno results at Jupiter	16.20-16.40
<b>11MS3-GP-08</b>	Scott Bolton and the Juno MWR Team	The depth of Jupiter's storms	16.40-17.00
<b>11MS3-GP-09</b>	Jack Connerney et al	Juno's exploration of Jupiter's magnetic field and magnetosphere	17.00-17.20
<b>11MS3-GP-10</b>	Philip Valek et al	In situ observations above the Jovian ionosphere by Juno JADE-I	17.20-17.40
<b>11MS3-GP-11</b>	Steven Levin and the Juno MWR Team	Latest results from the Juno Microwave Radiometer at Jupiter	17.40-18.00
<b>11MS3-GP-12</b>	Steven Levin and the Juno MWR Team	The global abundance of water in Jupiter's atmosphere: a progress report	18.00-18.20
<b>11MS3-GP-13</b>	Heidi Becker et al	Observations of Jupiter's atmosphere by Juno's Stellar Reference Unit	18.20-18.40
<b>POSTER SESSION , Session Giant Planets</b>			
<b>ONLINE DISCUSSION</b>			<b>18.40-19.00</b>
<b>11MS3-GP-PS-1</b>	Anna Dunaeva et al	Carbon dioxide clathrates in the Titan interiors	
<b>11MS3-GP-PS-2</b>	Victor Kronrod et al	Thermal evolution of rocky cores of the icy giant satellites	
<b>11MS3-GP-PS-3</b>	Petr Lysenko et al	Some interesting features of the methane and ammonia absorption bands behavior on Jupiter	

**Wednesday, 7 October 2020**

**Session 4. MOON AND MERCURY**

**10.00-18.00**

**Conveners: Igor MITROFANOV, Maxim LITVAK  
conference hall, second floor**

11MS3-MN-01	Johannes Benkhoff	Update on BepiColombo and first results from measurements during cruise	10.00-10.20
11MS3-MN-02	Alexander Kozyrev et al	First results of the monitoring of cosmic gamma-ray bursts by the MGNS instrument onboard ESA BepiColombo mission to Mercury	10.20-10.40
11MS3-MN-03	Ekaterina Feoktistova et al	Compilation of a new global catalog of Mercury's craters	10.40-11.00
11MS3-MN-04	I.G. Mitrofanov	Human and Robotic Lunar Exploration	11.00-11.20
11MS3-MN-05	M.L. Litvak	The reconnaissance of lunar resources	11.20-11.40

**Coffee-break**

**11.40-12.00**

11MS3-MN-06	Lev Zelenyi et al	Dust and dusty plasmas at the Moon. Challenges of modeling and measurements	12.00-12.20
11MS3-MN-07	Alexander Basilevsky et al	50 years of Lunokhod-1: past, present and future of planetary rovers	12.20-12.40
11MS3-MN-08	M. Joulaud et al	Candidate landing sites and possible traverses at the South Pole of the Moon for the LUVMI-X rover	12.40-13.00

**Lunch**

**13.00-14.00**

11MS3-MN-09	A.A. Petrukovich et al	Russian Luna-26 orbiter mission: science and implementation	14.00-14.20
11MS3-MN-10	V.I. Tretyakov et al	Overview of Luna-27 science instruments	14.20-14.40
11MS3-MN-11	D. J. Heather et al	ESA's PROSPECT payload on Luna-27: Development Status	14.40-15.00
11MS3-MN-12	A.V. Nosov et al	Lunar rover and soil intake system for Luna-28	15.00-15.20
11MS3-MN-13	T.M. Tomilina et al	Technology of 3D printing on the Moon	15.20-15.40
11MS3-MN-14	A.B. Sanin et al	The concept of gamma-ray spectrometer with tagged charged particles of galactic cosmic ray for lunar resource investigations	15.40-16.00

**Coffee-break**

**16.00-16.20**

11MS3-MN-15	James W.Head et al	Volcanically-Induced Transient Atmospheres on the Moon: Assessment of Duration, Significance and Contributions to Polar Volatile Traps	16.20-16.40
11MS3-MN-16	N. Bott et al	Unveiling the mineralogical composition of lunar farside mare basalts	16.40-17.00
11MS3-MN-17	Yuqi Qian et al	Young Mare Basalts in the Chang'e-5 Landing Region, Northern Oceanus Procellarum	17.00-17.20
11MS3-MN-18	J. Zhang et al	The Origin of the Lunar Procellarum KREEP Terrane (PKT): Stratigraphic Evidence and Implications for Lunar Geological and Thermal Evolution	17.20-17.40
11MS3-MN-19	Carle Pieters et al	Why Go Forward to the Moon? Because It Is an Integral Part of the Earth-Moon System	17.40-18.00

**POSTER SESSION , Session Moon and Mercury**

**ONLINE DISCUSSION**

**18.00-19.00**

11MS3-MN-PS-1	A.Gusev et al	Geological exploration of the Moon: strategies, concepts, approaches	
11MS3-MN-PS-2	E.V. Kronrod et al	Calculation of internal structure and physical properties of the lowermost lunar mantle from geophysical and geochemical data	
11MS3-MN-PS-3	J.Chu et al	Chronology of volcanism in the Moscoviense basin	
11MS3-MN-PS-4	G. G. Kochemasov	Swirls as intergrowths of light magnesian silicates (predominantly enstatite) and native iron	
11MS3-MN-PS-5	Le Qiao et al	Hyginus Crater and Graben: Dike Emplacement and Evolution, Magmatic Foam Extrusions, and Irregular Mare Patches	
11MS3-MN-PS-6	S. I. Ipatov et al	Estimates of the number of near-Earth objects based on the number of lunar craters formed during the last billion years	
11MS3-MN-PS-7	A.T. Basilevsky and G.G. Michael	Morphology and age of lunar crater Ina	
11MS3-MN-PS-8	E.A. Grishakina and M.A. Ivanov	Rock abundance in the Plaskett lunar crater	

<b>11MS3-MN-PS-9</b>	E.A. Feoktistova and S.I. Ipatov	Depths of the Copernicans craters located on lunar maria and highlands
<b>11MS3-MN-PS-10</b>	A.S. Krasilnikov et al	Estimates of the model thickness of the crater ejecta in the South Polar region of the Moon
<b>11MS3-MN-PS-11</b>	N.A. Slodarzh et al	Morphometric features of craters in the southern polar region of the Moon
<b>11MS3-MN-PS-12</b>	A.A. Barenbaum and M.I.Shpekin	Problem of «South Pole-Aitken» basin formation
<b>11MS3-MN-PS-13</b>	S.G. Pugacheva et al	The proposed landing site for the Luna-25 mission in the south pole region of the Moon
<b>11MS3-MN-PS-14</b>	N.A.Chujkova et al	Evolution of the Moon and possible dynamics of its interior
<b>11MS3-MN-PS-15</b>	V. Yu.Burmin	The optimal arrangement of seismic stations on the Moon for recording moonquakes
<b>11MS3-MN-PS-16</b>	N. A. Popandopulo et al	Study of the Dynamic Structure of the Near–Lunar Orbital Space
<b>11MS3-MN-PS-17</b>	I. Vinogradov et al	Diode laser spectroscopy sensor DLS-L of the GC-L instrument for the Luna-Resource (Luna-27) mission: scientific targets, design options and future perspectives
<b>11MS3-MN-PS-18</b>	S.V. Kulikov et al	Measurements of the electric and magnetic fields onboard the Luna-26 spacecraft
<b>11MS3-MN-PS-19</b>	A. Kosov et al	Main features of moon’s radio beacon and orbiter Ka-band receiver, included into “Luna-Resource-1” project
<b>11MS3-MN-PS-20</b>	B. A.Epishin and M.I.Shpekin	Sunrise, sunset and culmination of stars and bodies of the solar system on the lunar sky
<b>11MS3-MN-PS-21</b>	G. G. Kochemasov	Trembling Moon causing replenishment of its atmosphere and regolith layering

Thursday, 8 October 2020

**Session 5. SMALL BODIES (including cosmic dust)**

**Conveners: Alexander BASILEVSKY, Alexander ZAKHAROV**  
**conference hall, second floor**

**10.00-18.00**

10MS3-SB -01	E. Chornaya et al.	The 10 micron silicate feature in the Agglomerated Debris Particles	10.00-10.20
10MS3-SB-02	A. Kochergin et al	Blue color of disintegrating comet C/2019 Y4 (Atlas)	10.20-10.40
10MS3-SB-03	E. Zubko et al	Characterizing primordial dust in comets: Implication to C/2019 Y4 (ATLAS)	10.40-11.00
10MS3-SB-04	E. V. Blinkova et al	Study of the dynamic structure of Leo-Meo regions of the near-earth orbital space	11.00-11.20
10MS3-SB-05	Yu. Skorov et al	Activity of (6478) Gault during January 13 – March, 28, 2019	11.20-11.40
<b>Coffee-break</b>			11.40-12.00
10MS3- SB-06	T.Yu. Galushina and O.N. Letner	The dynamics research of asteroids 3200 Phaethon and 2007 PR10 under the Yarkovsky effect influence	12.00-12.20
10MS3- SB-07	B.P. Kondratyev and V.S. Kornoukhov	To the question of precession ring around dwarf planet Haumea	12.20-12.40
10MS3- SB-08	V. V. Busarev et al	Interstellar comet 2I/Borisov: the dust composition estimation	12.40-13.00
<b>Lunch</b>			13.00-14.00
10MS3- SB-09	V.V. Busarev et al	Variability of the reflectance spectra of (1) Ceres and solar activity	14.00-14.20
10MS3- SB-10	M.Ya. Marov et al	Protoplanetary disk at the snowline: modeling clusters of refractory and ice particles	14.20-14.40
10MS3- SB-11	M.Ya. Marov and S.I. Ipatov	Migration of planetesimals to the Earth from the zone of the outer asteroid belt	14.40-15.00
10MS3- SB-12	T.V. Salnikova and A.S. Samokhin	Probabilistic analysis of the cosmic masses accumulations in the Solar system	15.00-15.20
10MS3- SB-13	A.A. Berezhnoy et al	Behavior of Fe-containing species during meteor events and in laser experiments	15.20-15.40
10MS3- SB-14	E.Plávalová and A. Rosaev	Estimation Yarkovsky effect in 355258 (2007 LY4) and 404118 (2013 AF40) young asteroid pair	15.40-16.00
<b>Coffee-break</b>			16:00-16:20
10MS3- SB-15	V.V. Tchernyi et al	About Importance of magnetic phenomena for the Saturn's rings origin	16.20-16.40
10MS3- SB-16	S.I. Popel et al	Dust and dusty plasmas in the system of Mars	16.40-17.00
10MS3- SB-17	A. Kartashova et al	Meteoroid parameters from optical data	17.00-17.20
10MS3- SB-18	V.A. Krasnopolsky	On the methylacetylene abundance and nitrogen isotope ratio on Pluto	17.20-17.40
10MS3- SB-19	S. Voropaev et al	Models of chondrites genesis and evolution: new findings	17.40-18.00
<b>POSTER SESSION , Session Small Bodies (including cosmic dust)</b>			<b>18.00-18.30</b>
<b>ONLINE DISCUSSION</b>			
10MS3- SB-PS-1	O.M. Syusina and V. A. Avdushev	Nonlinearity in inverse orbital problems for potentially hazardous asteroids	
10MS3- SB-PS-2	A. Kochergin et al	Cometary dust migrating through the Solar System	
10MS3- SB-PS-3	Amirhossein Dehghani Ghanatghehstani et al	Applying UT to visual timing in occultation observations	
10MS3- SB-PS-4	A.A. Savelova et al	Estimation of some NEAs' composition by spectral method	
10MS3- SB-PS-5	A. Berdyugin et al	Negative polarization of asteroids (216) Kleopatra and (324) Bamberga	
10MS3- SB-PS-6	D.O. Glazachev et al	Scaling relations for spatial heterogeneity of shock wave effects from the impact of cosmic objects of different sizes	
10MS3- SB-PS-7	E. D. Kuznetsov et al	Young asteroid family Rampo and cascade disruption	
10MS3- SB-PS-8	V.S. Cheptsov et al	Formation of water and hydroxyl ions in simulated plasma of (micro)meteorite impact	
10MS3- SB-PS-9	A.P. Krivenko et al	Features of measuring the mechanical properties of meteorites L-Type	



**10MS3- SB-PS-10**  
**10MS3- SB-PS-11**

Yu.S.Reznichenko et al  
Yu. N. Izvekova et al

Dust acoustic waves and solitons in Martian ionosphere  
On possibility of the existence of oscillations in Schumann cavity at Mars

CONCERT, RECEPTION

18.30-20.030

<b>Friday, 9 October 2029</b>			
<b>Session 6. EXTRASOLAR PLANETS</b>			<b>9.00-13.00</b>
<b>Convener: Alexander TAVROV</b>			
<b>conference hall, second floor</b>			
11MS3-EP-01	Shingo Kameda et al	Current status of Ultraviolet Spectrograph for Exoplanet (UVSPEX) for WSO-UV	9.00-9.15
11MS3-EP-02	M.L. Khodachenko et al	Exoplanetary dust phenomena in transit photometry	9.15-9.30
11MS3-EP-03	E. Plávalová	Classification of Exoplanets	9.30-9.45
11MS3-EP-04	P. Mirshafiekhozani et al	Light curve analysis and radius study of 16 transiting exoplanets with ground-based data from ETD	9.45-10.00
11MS3-EP-05	A. Ivanova et al	Detectability window regularization algorithm to account for observation selection in statistics of RV-exoplanets	10.00-10.10
11MS3-EP-06	V.I.Ananyeva et al	Radial velocity-exoplanets distributions by masses and by orbital periods	10.10-10.25
11MS3-EP-07	O.Y. Yakovlev et al	Study of the mass distribution of transit exoplanets via mass-radius dependence	10.25-10.35
11MS3-EP-08	I. S. Savanov and E.S.Dmitrienko	Activity of two stars with planetary systems in Tuc-Hor group	10.35-10.50
11MS3-EP-09	V.I. Shematovich	Non-thermal atmospheric loss for exoplanet GJ 436b: H <sub>2</sub> photodissociation input	10.50-11.05
11MS3-EP-10	I.F. Shaikhislamov et al	3D modeling of transit absorption of GJ3470B in hydrogen and helium lines	11.05-11.20
11MS3-EP-11	F. Davoudi et al	Study of transit timing variation in five hot jupiter planets	11.20-11.35
<b>Coffee-break</b>			11.35-12.00
11MS3-EP-12	E.S.Kalinicheva and V.I. Shematovich	Thermal atmospheric loss for close-in exoplanets	12.00-12.15
11MS3-EP-13	A. S. Perminov and E.D.Kuznetsov	The Dynamical Evolution of Extrasolar Three-Planetary System GJ 3138	12.15-12.30
11MS3-EP-14	S. I. Ipatov	Probabilities of collisions of exoplanetesimals with exoplanets in the Proxima Centauri planetary system	12.30-12.45
11MS3-EP-15	V. A. Kotov	Motion of fast exoplanets and rotation of the Earth	12.45-13.00
<b>POSTER SESSION , Session Extrasolar Planets</b>			<b>13.00-13.15</b>
<b>ONLINE DISCUSSION</b>			
11MS3-EP-PS-01	A.V.Yudaev et al	Coronagraph with wavefront correction for exoplanet direct imaging	
11MS3-EP-PS-02	M. S.Rumenskikh et al	Numerical simulation of helium-rich atmospheres of hot exoplanets	
11MS3-EP-PS-03	F. JahediParizi et al	Investigating the impact of exoplanets parameters on their habitability	
11MS3-EP-PS-04	Zahra Zarei et al	Estimation of the Total Mass of Ten Exoplanets and their Host Stars Based on the Primary Transit Method	
11MS3-EP-PS-05	Atila Poro et al	Period Study by the Transit Method with Ground-Based Observations	
<b>Lunch</b>			13.15-14.00
<b>Session 7. VENUS</b>			<b>14.00-18.20</b>
<b>Convener: Ludmila ZASOVA, Sanjay LIMAYE</b>			
<b>conference hall, second floor</b>			
11MS3-VN-01	M. Razumovsky et al	Development of radiation block for non-hydrostatic GCM of Venus Atmosphere	14.00-14.20
11MS3-VN-02	Marina Patsaeva et al	Long-term variations of zonal wind speed at the cloud top level over mission time from VMC/Venus Express and UVI (Akatsuki) UV images	14.20-14.40
11MS3-VN-03	Dmitry. Gorinov et al	Horizontal winds in the lower clouds on the nightside of Venus from VIRTIS/VEx 1.74 μm data	14.40-15.00
11MS3-VN-04	Ludmila Zasova	Venera-D: a perspective planetary mission	15.00-15.20
11MS3-VN-05	V.A.Zubko et al	Landing on the Venus surface with gravity assist	15.20-15.40
11MS3-VN-06	Tibor Kremic et al	LLISSE: Development status	15.40-16.00
<b>Coffee-break</b>			16.00-16.20
11MS3-VN-07	Sanjay Limaye et al	Venus, an astrobiology target	16.20-16.40
11MS3-VN-08	Michael Way	A Temperate Climate History of Venus	16:40-17:00

<b>11MS3-VN-09</b>	Piero D’Incecco et al	The young volcanic rises as suitable landing sites for future Venus missions: scientific relevance in the debate between the equilibrium and catastrophic resurfacing hypotheses	17.00-17.20
<b>11MS3-VN-10</b>	L.M. MacLellan et al	Volcanic history of the Derceto Corona event, Astkhik Planum, Venus	17.20-17.40
<b>11MS3-VN-11</b>	Richard Ernst et al	Tesserae on Venus may preserve evidence of fluvial erosion	17.40-18.00
<b>10MS3- VN-12</b>	M. Domínguez-Pumar et al	First experiments with a 3D heat flux sensor for planetary regolith	18.00-18.20

**POSTER SESSION , Session Venus**

**ONLINE DISCUSSION**

**18.20-19.20**

<b>11MS3-VN-PS-01</b>	S. T. Port et al	Venus Surveyor for Planetary Exploration Research (VeSPER)
<b>11MS3-VN-PS-02</b>	A. Kereszturi	Targets of high resolution radar analysis on Venus for the EnVision mission
<b>11MS3-VN-PS-03</b>	J. Balcerski et al	LEAVES – a low-mass atmospheric sensor platform concept for distributed exploration at Venus
<b>11MS3-VN-PS-04</b>	I.V. Khatuntsev et al	Cloud level winds from VMC (Venus Express) and UVI (Akatsuki) imaging
<b>11MS3-VN-PS-05</b>	V.P. Ogibalov and Yu.L. Bordovskaya	Emissions in the IR CO <sub>2</sub> bands outgoing the planetary atmosphere with macroscopic wind velocity gradient
<b>11MS3-VN-PS-06</b>	Vladimir Zharkov et al	The choice of the reference surface for Venus
<b>11MS3-VN-PS-07</b>	Tamara Menshchikova et al	Data analysis of the gravity field of Venus
<b>11MS3-VN-PS-08</b>	E.N. Guseva and M.A.Ivanov	Results of geologic analysis of the coronae of different topographic categories on Venus
<b>11MS3-VN-PS-09</b>	A.V. Kosenkova and A.B. Martynov	Investigation of design characteristics of a lander for maneuverable descent to the Venus surface
<b>11MS3-VN-PS-10</b>	A.B. Martynov and A.V. Kosenkova.	Some platforms to observe Venus as a system