

Overview 11M-S³ Program

The Eleventh Moscow Solar System Symposium (11M-S³)

IKI RAS, 5-9 October 2020

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

11M-S³ 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 Nikolay Abramov et al Ground testing of the landing platform television system of the ExoMars-2020 spacecraft 10.15-10.30

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

11MS3-MS-03 Alexey 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' CO₂ seasonal mass deposits at polar caps: a comparison between gravity and Neutron flux data 11.00-11:15

11MS3-MS-05 Jordanka 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 Maria-Paz 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 Dmitrij Titov et al Mars Express science highlights and future plans 12.15-12:30

11MS3-MS-08 Salvador 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 Marina 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 Anatoliy 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 Valery 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 Pavel 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 Denis Belyaev Upper mesospheric water on Mars as measured by ACS TGO solar occultations 15.15-15.30

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

11MS3-MS-17 Vladimir Krasnopolsky Photochemistry of HCl in the Martian Atmosphere 15.45-16.00

Coffee-break **16.00-16.30**

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

11MS3-MS-19 Jessica 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 Benjamin 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 Ashley 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**

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

Tuesday, 6 October 2020			
Session 2. ASTROBIOLOGY			10.00-12.00
Conveners: Elena VOROBYOVA, Oleg KOTSYURBENKO			
conference hall, second floor			
11MS3-AB-01	Richard B. Hoover	Life in ice: implications to life on the Moon and small Solar System bodies	10.00-10.15
11MS3-AB-02	Maxim Zaitsev et al	On the formation and transformation of organic matter in the Solar System	10.15-10.30
11MS3-AB-03	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
11MS3-AB-04	Sergey Bulat et al	New microbial finds in the subglacial antarctic lake Vostok	10.45-11.00
11MS3-AB-05	Nikita Demidov et al	Sources of materials for the western delta of Jezero crater (Mars), astrobiological implication	11.00-11.15
11MS3-AB-06	Zohreh Ashrafzadeh et al	The effect of cosmic rays on the human hippocampus	11.15-11.30
Coffee-break			11.30-12.00
POSTER SESSION , Session Astrobiology			
ONLINE DISCUSSION			12.00-12.20
11MS3-AB-PS-1	Vladimir Cheptsov et al	The stability of enzymes to the effect of ionizing radiation under simulated extraterrestrial conditions	
11MS3-AB-PS-2	Elizaveta Sukhova et al	Resistance of DT57C bacteriophage to irradiation by high-energy electrons	
11MS3-AB-PS-3	Andrey Belov et al	Microbial communities of Novaya Zemlya permafrost: physiological properties and astrobiological implication	
POSTER SESSION , Session Solar wind interactions with planets and small bodies			
Convener: Oleg VAISBERG			
ONLINE DISCUSSION			12.20-13.00
11MS3-SW-PS-01	Valery Shematovich and D.V.Bisikalo	Efficiency of charge exchange between solar wind protons and the extended hydrogen corona of Mars	
11MS3-SW-PS-02	Vladimir 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	
11MS3-SW-PS-03	Natalia Bulatova	On the movement of ensembles of objects by the spatio-temporal technology	
11MS3-SW-PS-04	Ilya Miroshnichenko et al	The influence of the parent star Ly α radiation on absorption in the H α line of the hot atmospheres HD189733b AND HD 209458b	
11MS3-SW-PS-05	Tatiana Morozova and Sergey Popel	Dusty plasma processes associated with meteor showers in the Earth's atmosphere	
11MS3-SW-PS-06	Rico Fausch et al	CHESS – constellation of CubeSats: analyzing the drivers of the Earth's exosphere with MS and GNSS	
11MS3-SW-PS-07	Igor Minaev	Neutrino Telescope and the Sun	
Lunch			13.00-14.00
Session 3. GIANT PLANETS			14.00-18.40
Convener: Scott BOLTON			
conference hall, second floor			
11MS3-GP-01	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
11MS3-GP-02	Michel Blanc et al	A preliminary study of MIT coupling at Jupiter based on Juno observations and modelling tools	14.20-14.40
11MS3-GP-03	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
11MS3-GP-04	Alessandro Mura et al	Infrared observations of Jupiter's aurorae and atmosphere	15.00-15.20
11MS3-GP-05	Leigh N. Fletcher et al	Jupiter's temperate belt/zone contrasts at depth revealed by Juno	15.20-15.40
11MS3-GP-06	Tatiana Salnikova and S. Stepanov	Peculiar movement of a pair of Saturn satellites	15.40-16.00

Coffee-break			16.00-16.20
11MS3-GP-07	Scott Bolton and the Juno Science Team	Overview of Juno results at Jupiter	16.20-16.40
11MS3-GP-08	Scott Bolton and the Juno MWR Team	The depth of Jupiter's storms	16.40-17.00
11MS3-GP-09	Jack Connerney et al	Juno's exploration of Jupiter's magnetic field and magnetosphere	17.00-17.20
11MS3-GP-10	Philip Valek et al	In situ observations above the Jovian ionosphere by Juno JADE-I	17.20-17.40
11MS3-GP-11	Steven Levin and the Juno MWR Team	Latest results from the Juno Microwave Radiometer at Jupiter	17.40-18.00
11MS3-GP-12	Steven Levin and the Juno MWR Team	The global abundance of water in Jupiter's atmosphere: a progress report	18.00-18.20
11MS3-GP-13	Heidi Becker et al	Observations of Jupiter's atmosphere by Juno's Stellar Reference Unit	18.20-18.40
POSTER SESSION , Session Giant Planets			
ONLINE DISCUSSION			18.40-19.00
11MS3-GP-PS-1	Anna Dunaeva et al	Carbon dioxide clathrates in the Titan interiors	
11MS3-GP-PS-2	Victor Kronrod et al	Thermal evolution of rocky cores of the icy giant satellites	
11MS3-GP-PS-3	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	Igor Mitrofanov	Human and Robotic Lunar Exploration	11.00-11.20
11MS3-MN-05	Maxim 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	Marine 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	Anatoly Petrukovich et al	Russian Luna-26 orbiter mission: science and implementation	14.00-14.20
11MS3-MN-10	Vladislav Tretyakov et al	Overview of Luna-27 science instruments	14.20-14.40
11MS3-MN-11	David Heather et al	ESA's PROSPECT payload on Luna-27: Development Status	14.40-15.00
11MS3-MN-12	Artem Nosov et al	Lunar rover and soil intake system for Luna-28	15.00-15.20
11MS3-MN-13	Tatiana Tomilina et al	Technology of 3D printing on the Moon	15.20-15.40
11MS3-MN-14	Anton 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	Nicolas 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	Jingyi 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	Alexander Gusev et al	Geological exploration of the Moon: strategies, concepts, approaches	
11MS3-MN-PS-2	Ekaterina Kronrod et al	Calculation of internal structure and physical properties of the lowermost lunar mantle from geophysical and geochemical data	
11MS3-MN-PS-3	Jun Chu et al	Chronology of volcanism in the Moscoviense basin	
11MS3-MN-PS-4	Gennady 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	Sergei 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	Alexander Basilevsky and G.G. Michael	Morphology and age of lunar crater Ina	
11MS3-MN-PS-8	Ekaterina Grishakina and Mikhail Ivanov	Rock abundance in the Plaskett lunar crater	

11MS3-MN-PS-9	Ekaterina Feoktistova and Sergei Ipatov	Depths of the Copernicans craters located on lunar maria and highlands
11MS3-MN-PS-10	Alexandr Krasilnikov et al	Estimates of the model thickness of the crater ejecta in the South Polar region of the Moon
11MS3-MN-PS-11	Nikolay Slodarch et al	Morphometric features of craters in the southern polar region of the Moon
11MS3-MN-PS-12	Azariy Barenbaum and Michael Shpekin	Problem of «South Pole-Aitken» basin formation
11MS3-MN-PS-13	Svetlana Pugacheva et al	The proposed landing site for the Luna-25 mission in the south pole region of the Moon
11MS3-MN-PS-14	Nadezhda Chujkova et al	Evolution of the Moon and possible dynamics of its interior
11MS3-MN-PS-15	Valerii Burmin	The optimal arrangement of seismic stations on the Moon for recording moonquakes
11MS3-MN-PS-16	Nikita Popandopulo et al	Study of the Dynamic Structure of the Near–Lunar Orbital Space
11MS3-MN-PS-17	Imant 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
11MS3-MN-PS-18	Sergei Kulikov et al	Measurements of the electric and magnetic fields onboard the Luna-26 spacecraft
11MS3-MN-PS-19	Alexander Kosov et al	Main features of Moon’s radio beacon and orbiter Ka-band receiver, included into “Luna-Resource-1” project
11MS3-MN-PS-20	Boris Epishin and Michael Shpekin	Sunrise, sunset and culmination of stars and bodies of the solar system on the lunar sky
11MS3-MN-PS-21	Gennady 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

11MS3-SB-01	Ekaterina Chornaya et al.	The 10 micron silicate feature in the Agglomerated Debris Particles	10.00-10.20
11MS3-SB-02	Anton Kochergin et al	Blue color of disintegrating comet C/2019 Y4 (Atlas)	10.20-10.40
11MS3-SB-03	Evgenij Zubko et al	Characterizing primordial dust in comets: Implication to C/2019 Y4 (ATLAS)	10.40-11.00
11MS3-SB-04	Evgeniya Blinkova et al	Study of the dynamic structure of Leo-Meo regions of the near-earth orbital space	11.00-11.20
11MS3-SB-05	Yuri Skorov et al	Activity of (6478) Gault during January 13 – March, 28, 2019	11.20-11.40
Coffee-break			11.40-12.00
11MS3- SB-06	Tatyana Galushina and Oksana Letner	The dynamics research of asteroids 3200 Phaethon and 2007 PR10 under the Yarkovsky effect influence	12.00-12.20
11MS3- SB-07	Boris Kondratyev and V.S. Kornoukhov	To the question of precession ring around dwarf planet Haumea	12.20-12.40
11MS3- SB-08	Vladimir Busarev et al	Interstellar comet 2I/Borisov: the dust composition estimation	12.40-13.00
Lunch			13.00-14.00
11MS3- SB-09	Vladimir Busarev et al	Variability of the reflectance spectra of (1) Ceres and solar activity	14.00-14.20
11MS3- SB-10	Mikhail Marov et al	Protoplanetary disk at the snowline: modeling clusters of refractory and ice particles	14.20-14.40
11MS3- SB-11	Mikhail Marov and Sergei Ipatov	Migration of planetesimals to the Earth from the zone of the outer asteroid belt	14.40-15.00
11MS3- SB-12	Tatiana Salnikova and Alexander Samokhin	Probabilistic analysis of the cosmic masses accumulations in the Solar system	15.00-15.20
11MS3- SB-13	Alexey Berezhnoy et al	Behavior of Fe-containing species during meteor events and in laser experiments	15.20-15.40
11MS3- SB-14	Eva Plávalová and A. Rosaev	Estimation Yarkovsky effect in 355258 (2007 LY4) and 404118 (2013 AF40) young asteroid pair	15.40-16.00
Coffee-break			16:00-16:20
11MS3- SB-15	Vladimir Tchernyi et al	About Importance of magnetic phenomena for the Saturn's rings origin	16.20-16.40
11MS3- SB-16	Sergey Popel et al	Dust and dusty plasmas in the system of Mars	16.40-17.00
11MS3- SB-17	Anna Kartashova et al	Meteoroid parameters from optical data	17.00-17.20
11MS3- SB-18	Vladimir Krasnopolsky	On the methylacetylene abundance and nitrogen isotope ratio on Pluto	17.20-17.40
11MS3- SB-19	Sergey Voropaev et al	Models of h chondrites genesis and evolution: new findings	17.40-18.00

POSTER SESSION , Session Small Bodies (including cosmic dust)

18.00-18.30

ONLINE DISCUSSION

11MS3- SB-PS-1	Olga Syusina and V. A. Avdyushev	Nonlinearity in inverse orbital problems for potentially hazardous asteroids
11MS3- SB-PS-2	Anton Kochergin et al	Cometary dust migrating through the Solar System
11MS3- SB-PS-3	Amirhossein Dehghani Ghanatghehstani et al	Applying UT to visual timing in occultation observations
11MS3- SB-PS-4	Arina Savelova et al	Estimation of some NEAs' composition by spectral method
11MS3- SB-PS-5	A. Berdyugin et al	Negative polarization of asteroids (216) Kleopatra and (324) Bamberga
11MS3- SB-PS-6	Dmitry Glazachev et al	Scaling relations for spatial heterogeneity of shock wave effects from the impact of cosmic objects of different sizes
11MS3- SB-PS-7	Eduard Kuznetsov et al	Young asteroid family Rambo and cascade disruption
11MS3- SB-PS-8	Vladimir Cheptsov et al	Formation of water and hydroxyl ions in simulated plasma of (micro)meteorite impact
11MS3- SB-PS-9	Artem Krivenko et al	Features of measuring the mechanical properties of meteorites L-Type

11MS3- SB-PS-10

Yulia Reznichenko et al

Dust acoustic waves and solitons in Martian ionosphere

11MS3- SB-PS-11

Yulia Izvekova et al

On possibility of the existence of oscillations in Schumann cavity at Mars

CONCERT, RECEPTION

18.30-20.30

Friday, 9 October 2020			
Session 6. EXTRASOLAR PLANETS			9.00-13.00
Convener: Alexander TAVROV conference hall, second floor			
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	Maxim Khodachenko et al	Exoplanetary dust phenomena in transit photometry	9.15-9.30
11MS3-EP-03	Eva Plávalová	Classification of Exoplanets	9.30-9.45
11MS3-EP-04	Pegahsadat 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	Anastasiia Ivanova et al	Detectability window regularization algorithm to account for observation selection in statistics of RV-exoplanets	10.00-10.10
11MS3-EP-06	Vladislava Ananyeva et al	Radial velocity-exoplanets distributions by masses and by orbital periods	10.10-10.25
11MS3-EP-07	Oleg Yakovlev et al	Study of the mass distribution of transit exoplanets via mass-radius dependence	10.25-10.35
11MS3-EP-08	Igor Savanov and E.S.Dmitrienko	Activity of two stars with planetary systems in Tuc-Hor group	10.35-10.50
11MS3-EP-09	Valery Shematovich	Non-thermal atmospheric loss for exoplanet GJ 436b: H ₂ photodissociation input	10.50-11.05
11MS3-EP-10	Ildar Shaikhislamov et al	3D modeling of transit absorption of GJ3470B in hydrogen and helium lines	11.05-11.20
11MS3-EP-11	Fatemeh Davoudi et al	Study of transit timing variation in five hot jupiter planets	11.20-11.35
Coffee-break			11.35-12.00
11MS3-EP-12	Evgeniya Kalinicheva and Valery Shematovich	Thermal atmospheric loss for close-in exoplanets	12.00-12.15
11MS3-EP-13	Alexander Perminov and Eduard Kuznetsov	The Dynamical Evolution of Extrasolar Three-Planetary System GJ 3138	12.15-12.30
11MS3-EP-14	Sergei Ipatov	Probabilities of collisions of exoplanetesimals with exoplanets in the Proxima Centauri planetary system	12.30-12.45
11MS3-EP-15	Valery Kotov	Motion of fast exoplanets and rotation of the Earth	12.45-13.00
POSTER SESSION , Session Extrasolar Planets			
ONLINE DISCUSSION			13.00-13.15
11MS3-EP-PS-01	Andrei Yudaev et al	Coronagraph with wavefront correction for exoplanet direct imaging	
11MS3-EP-PS-02	Marina Rumenskikh et al	Numerical simulation of helium-rich atmospheres of hot exoplanets	
11MS3-EP-PS-03	Faezeh 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	
Lunch			13.15-14.00
Session 7. VENUS			14.00-18.20
Convener: Ludmila ZASOVA, Sanjay LIMAYE conference hall, second floor			
11MS3-VN-01	Mikhail 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	Vladislav 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
Coffee-break			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

11MS3-VN-09	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
11MS3-VN-10	Lauren MacLellan et al	Volcanic history of the Derceto Corona event, Astkhik Planum, Venus	17.20-17.40
11MS3-VN-11	Richard Ernst et al	Tesserae on Venus may preserve evidence of fluvial erosion	17.40-18.00
11MS3- VN-12	Manuel 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

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