

Overview 13M-S³ Program

THE THIRTEENTH MOSCOW SOLAR SYSTEM SYMPOSIUM (13M-S³)

IKI RAS, 10-14 October 2022

	10 October	11 October	12 October	13 October	14 October	
10.00	OPENING SESSION	MN SESSION	MN SESSION	SB SESSION	VN SESSION	EP SESSION
11.00	MS SESSION					
11.40	COFFEE	COFFEE	COFFEE	COFFEE	COFFEE	COFFEE
12.00						
13.00	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
14.00			GP SESSION			EP POSTERS
			GP POSTERS			SOCIAL EVENTS IN MOSCOW
			AB SESSION			
16.00	COFFEE	COFFEE	COFFEE	COFFEE	COFFEE	
16.20						
18.00	MS POSTER SESSION	MN POSTER SESSION		SB POSTER SESSION	VN POSTERS	
19.00	WELCOME PARTY		AB POSTER SESSION	RECEPTION	SOCIAL EVENTS IN MOSCOW	
20.00			SOCIAL EVENTS IN MOSCOW			

MS SESSION: MARS SESSION

MN SESSION: MOON AND MERCURY SESSION

GP SESSION: GIANT PLANETS SESSION

AB SESSION: ASTROBIOLOGY SESSION

SB SESSION: SMALL BODIES SESSION

VN SESSION: VENUS SESSION

EP SESSION: EXTRASOLAR PLANETS SESSION

13M-S³ Scientific Program

Monday, 10 October 2022			
	Lev ZELENYI	Opening Remarks	10.00-11.00
Session 1. MARS			11.00-18.45
Convener: Oleg KORABLEV			
conference hall, second floor			
13MS3-MS-01	D. Belyaev et al	Thermal structure of the middle and upper atmosphere of Mars as seen by ACS MIR spectroscopy	11.00-11:20
13MS3-MS-02	E. D. Starichenko et al	Gravity wave statistics in the Martian atmosphere from the ACS/TGO solar occultation experiment	11.20-11.40
Coffee-break			11.40-12.00
13MS3-MS-03	A. Fedorova et al	A two-Martian year survey of the water vapor saturation state on Mars based on ACS NIR/TGO occultations	12.00-12:20
13MS3-MS-04	P. Vlasov et al	Overview of Martian Year 34 atmospheric thermal structure and dust distribution from ACS TIRVIM nadir observations onboard ExoMars TGO	12.20-12.40
13MS3-MS-05	M. Luginin et al	Observations of 2.7 micrometer CO ₂ ice band on Mars from ACS solar occultations onboard TGO/ExoMars	12.40-13.00
Lunch			13.00-14.00
13MS3-MS-06	V.I. Shematovich et al	Kinetic modeling of hot fraction in the extended hydrogen corona of Mars	14.00-14.20
13MS3-MS-07	A. Yu. Shestakov and S.D. Shuvalov	Planetary ions acceleration inside Martian hot flow anomaly	14.20-14.40
13MS3-MS-08	Jordanka Semkova et al	Radiation environment in ExoMars TGO Mars orbit during solar energetic particle events in July 2021-March 2022	14.40-15.00
13MS3-MS-09	Victor Benghin et al	Comparison of the flux and dose rate measured by the Liulin-MO device aboard ExoMars TGO with calculated estimations	15.00-15.20
13MS3-MS-10	A. V. Malakhov et al	Global map of water abundance in the upper regolith layer of the equatorial region on Mars	15.20-15.40
13MS3-MS-11	J. Head et al	When did Mars become bipolar? Outstanding issues in a conceptual model of a Noachian-Amazonian climate transition from an altitude-dominant temperature environment (ADD) to a latitude-dominant temperature environment (LDD)	15.40-16.00
Coffee-break			16.00-16.20
13MS3-MS-12	B. D. Boatwright and James Head	Constraining Early Mars Glacial Conditions from Paleodischarge Estimates of Intracrater Inverted Channels	16.20-16.40
13MS3-MS-13	E.D. Podobnaya et al	Fragmentation model for impact clusters on Mars	16.40-17.00
13MS3-MS-14	E.D. Faber et al	Mineralogical variations of deposits in the Utopia Planitia region of Mars measured by CRISM and OMEGA spectrometers	17.00-17.20
13MS3-MS-15	J. Chu et al	Lateral extension of layered deposits in S-W portion of Holden crater, Mars	17.20-17.40
13MS3-MS-16	E. A. Kulik and T. Gudkova	On model values of Chandler wobble period for Mars	17.40-18.00
POSTER SESSION, Session Mars			18.00-18.45
9 posters*5min			
13MS3-MS-PS-01	O.L.Vaisberg	Mars magnetopause	
13MS3-MS-PS-02	S.V. Kulikov et al	Study of wave phenomena in the plasma environment of Mars: simultaneous observations at ground and on orbits	
13MS3-MS-PS-03	I. E. Stepanova et al	Combined approach in finding analytical continuations of the Mars magnetic field from satellite data	

13MS3-MS-PS-04	E.S.Melikhova et al	The activity of the young Sun and isotopic composition evolution of the atmospheres of Mars and Venus
13MS3-MS-PS-05	D. Evdokimova et al	Upper limits of Mars atmospheric trace gases from the thermal spectra by ACS-TIRVIM/ExoMars
13MS3-MS-PS-06	V.P. Ogibalov	Radiative transfer in the Martian atmosphere taking account line-mixing in the 15 μm CO ₂ band
13MS3-MS-PS-07	V.P. Ogibalov	Modelling of the non-equilibrium emissions of the Martian atmosphere in the near-IR CO ₂ bands taking account aerosol extinction
13MS3-MS-PS-08	A.V. Batov et al	On model crust thickness variations of Mars and Venus with love numbers
13MS3-MS-PS-09	N.N. Kasatikov et al	Using neural networks to search for information about Mars remotely

WELCOME PARTY

19.00-20.00

Tuesday, 11 October 2022			
Session 2. MOON AND MERCURY			10.00-20.00
Conveners: Igor MITROFANOV, Maxim LITVAK			
conference hall, second floor			
Mercury			
13MS3-MN -01	J. Benkhoff	BepiColombo Status	10.00-10.20
13MS3-MN-02	J..Head et al	Mercury magmatic, tectonic and geodynamic history a comparative planetology analysis	10.20-10.40
13MS3-MN-03	A.S. Lavrukhin et al	Mercury's magnetosphere variations	10.40-11.00
13MS3-MN-04	A.S. Kozyrev et al	A comparative analysis of neutron flux data measured by MGNS/BepiColombo experiment for Venus and Mercury flybys	11.00-11.20
The studies of the Moon as celestial body			
13MS3-MN-05	L. Wilson et al	Modeling the eruption and the cooling times of the lavas sampled by the Chang'e 5 mission	11.20-11.40
Coffee-break			11.40-12.00
13MS3-MN-06	S.S. Krasilnikov et al	Northern oblique impact formation of the South Pole-Aitken basin	12.00-12.20
13MS3-MN-07	K. Kochubey and M. Ivanov	Degradation of fresh-looking craters in Mare Fecunditatis, Moon	12.20-12.40
13MS3-MN-08	A.T. Basilevsky et al	Surface morphology inside the PSR area of polar crater Shoemaker in comparison with that of the sunlit areas	12.40-13.00
Lunch			13.00-14.00
13MS3-MN-09	E.N. Slyuta et al	Site selection problems of the Moon research station	14.00-14.20
13MS3-MN-10	M. Ivanov et al	Absolute model age estimates of the Fecunditatis basin and Mare Fecunditatis in the region of Luna-16 landing site	14.20-14.40
13MS3-MN-11	Chunyu Ding et al	Yutu-2 Radar sounding over the Chinese Chang'E-4 landing site on the far-side of the Moon	14.40-15.00
13MS3-MN-12	S.A. Voropaev and A.P. Krivenko	Some features of the early Moon' degassing	15.00-15.20
13MS3-MN-13	A. Gusev et al	Geological exploration of the Moon III: water ice in near polar regions of the Moon	15.20-15.40
13MS3-MN-14	M. V. Djachkova et al	The water abundance at Artemis landing sites	15.40-16.00
Coffee-break			16.00-16.20
The experiments on the Moon			
13MS3-MN-15	A. Shugarov et al	The concept of Moon-based UV survey to study transients and variables	16.20-16.40
13MS3-MN-16	H. J. Wang et al	Science of the lunar-based UV-OPTICAL-IR telescope for ILRS	16.40-17.00
13MS3-MN-17	I.A. Kuznetsov et al	Investigation of the lunar dusty plasma and electric field dynamics with lunar dust monitoring instrument	17.00-17.20
13MS3-MN-18	A. A. Kim et al	Testing SLM technology with simulants of lunar regolith: applications to Lunar Printer experiment	17.20-17.40
13MS3-MN-19	M.I. Mokrousov et al	Space gamma-ray spectroscopy experiment with tags of Galactic cosmic rays	17.20-18.00
POSTER SESSION , Session Moon and Mercury			18.00-20.00
29 posters*4 min			
13MS3-MN-PS-01	M. L. Litvak et al	Experiment MGNS onboard ESA BepiColombo mission	
13MS3-MN-PS-02	Yongliao Zou et al	Studying lunar evolution based on comprehensive physical field exploration for International Lunar Research Station program	
13MS3-MN-PS-03	Shaopeng Huang et al	Heat flow measurement a priority for upcoming lunar missions	
13MS3-MN-PS-04	Bingxian Luo et al	Moon-based space weather station for Sun-Earth-Moon environment interaction monitoring and research	
13MS3-MN-PS-05	Jiajie Feng and Hong Liu	Key Scientific Questions of Lunar Life Sciences	
13MS3-MN-PS-06	Z.G. Meng et al	Probing surface deposits in heavily ejecta-contaminated Mare Frigoris using CE-2 MRM data	

13MS3-MN-PS-07	Xuelei Chen	Low Frequency Radio Interferometry from the Lunar Orbit
13MS3-MN-PS-08	M. V. Podzolko and V.Kalegaev	Suggestion of an experiment for measuring the fluxes of energetic galactic and solar protons and nuclei onboard future lunar station
13MS3-MN-PS-09	A.N.Turundaevskiy et al	The Neutronium experimental complex for the Russian Lunar Scientific Observatory
13MS3-MN-PS-10	N. A. Kozlova et al	Availability of LROC NAC stereo images for construction of detailed DEMS at the south subpolar region of interest for russian lunar missions
13MS3-MN-PS-11	O. O. Shevaldysheva et al	Stationary and mobile lunar gravimeters
13MS3-MN-PS-12	O.I. Turchinskaya and E.Slyuta	Development of routes for the heavy rover «Lunar Robot-Geologist» on the territory of the volcanic province of Mons Rumker
13MS3-MN-PS-13	A.B. Manukin et al	The SEISMO-LR is a three–coordinate seismometer for measurements on the Moon
13MS3-MN-PS-14	V.S. Cheptsov et al	Applicability of LASMA-LR mass-spectrometer for the water ice detection within lunar regolith
13MS3-MN-PS-15	K.V. Zakharchenko et al	Durable diamond detector of cosmic radiation
13MS3-MN-PS-16	E. M. Sorokin et al	Natural lunar test site on Earth
13MS3-MN-PS-17	A.V.Uvarova	Consideration of ashes from the Kamchatka peninsula as lunar soil-analogues on the basis of physical and mechanical properties
13MS3-MN-PS-18	I. A. Agapkin	The Kamchatka volcanic ashes as a lunar soil analogue (physical properites)
13MS3-MN-PS-19	A.S. Krasilnikov and M.Ivanov	Estimates of the Local/Foreign Material Mixing on the Moon: the Crater Langrenus Case
13MS3-MN-PS-20	A.S. Krasilnikov et al	Geological Structure of the Main Landing Ellipses of Luna-25
13MS3-MN-PS-21	V. N. Afanasyev and G.Pechernikova	The new analytical approach for calculation of craters ejecta thickness
13MS3-MN-PS-22	E.V. Kronrod et al	Thermal evolution of the Moon with geophysical constraints
13MS3-MN-PS-23	M. A. Ivanov and E.Guseva	Automatic method to estimate the steepness of walls of small impact craters on the Moon
13MS3-MN-PS-24	E.A. Feoktistova et al	Morphological features of craters in the polar regions of the Moon
13MS3-MN-PS-25	S.G. Pugacheva et al	Hermite A crater as s cold trap near the north pole of the Moon
13MS3-MN-PS-26	N.A. Chujkova et al	Dynamics of the Moon-Earth system and its impact on climat
13MS3-MN-PS-27	B.A. Epishin and M.Shpekin	Autonomous electronic Yearbook for observations from the surface of the Moon
13MS3-MN-PS-28	Kochemasov G.G.	Moon-Earth' comparable fine wave structures created by equal orbits (around Sun and in Galaxy)
13MS3-MN-PS-29	Kochemasov G.G.	Moon-dichotomous as other cosmic bodies (from asteroids to Universe)

Wednesday, 12 October 2022			
Session 2. MOON AND MERCURY			10.00-13.00
Conveners: Igor MITROFANOV, Maxim LITVAK			
conference hall, second floor			
The experiments on the Moon			
13MS3-MN-20	V. Yakovlev et al	The ground tests of Lunar Manipulator Complex for Luna-25	10.00-10.20
13MS3- MN -21	S.N. Ponomareva et al	Drilling of Ice-rich Regolith: Vibration and Blocking Issues	10.20-10.40
13MS3- MN- 22	M.I. Malenkov et al	Discussion of the concept of mobile robotic complexes for the International Lunar Research Station	10.40-11.00
13MS3- MN -23	Guang Liu et al	Developing the Lunar-based Earth observation platform	11.00-11.20
Lunar exploration programs/perspectives			
13MS3- MN -24	C. Wang et al	Preliminary scientific objectives of the International Lunar Research Station program	11.20-11.40
Coffee-break			11.40-12.00
13MS3- MN -25	A.A. Petrukovich et al	The International Lunar Research Station from science perspective	12.00-12.20
13MS3- MN -26	L.M. Zelenyi et al	Science objectives of lunar exploration	12.20-12.40
13MS3- MN- 27	I.G. Mitrofanov et al	The “Korvet” Program: Integrated Human and Robotic Missions to Moon	12.40-13.00
Lunch			13.00-14.00
Session 3. GIANT PLANETS			14.00-15.00
Convener: Valery SHEMATOVICH			
conference hall, second floor			
13MS3-GP-01	N.A. Slodarz et al	Hyperion (C7): control point network and shape model. Difficulties and solutions	14.00-14.20
13MS3-GP-02	A. E. Zubarev et al	Updated Ganymede control point network based on JUNO mission data	14.20-14.40
POSTER SESSION , Session Giant Planets			14.40-15.00
4 posters*5 min			
13MS3- GP-PS-01	A.N. Dunaeva et al	Organic matter in the structure of partially differentiated Titan	
13MS3- GP-PS-02	V.A. Kronrod et al	Convection in the rock-ice mantle of partially differentiated Titan	
13MS3-GP-PS-03	M.A. Melnikova et al	New global mosaic of Ganymede, detailed DEMs and maps	
13MS3-GP-PS-04	A.A. Barenbaum	Measuring the precession period of Solar System ecliptic plane using Galactic model	
Session 4. ASTROBIOLOGY			15.00-19.35
Convener: Oleg KOTSYURBENKO			
conference hall, second floor			
13MS3-AB-01	Sohan Jheeta	Electron irradiation of a homogeneous mixture of ammonia and carbon dioxide (NH ₃ :CO ₂) ice at simulated planetary temperatures	15.00-15.20
13MS3-AB-02	Martin Dominik	The cosmic context of planet Earth – Don't buy a roadmap that only shows a single road	15.20-15.40
13MS3-AB-03	Oleg Kotsyurbenko et al	Life on Venus: different concepts of its origin and evolution	15.40-16.00
Coffee-break			16.00-16.20
13MS3-AB-04	Dmitry Skladnev et al	The simplest Lab-on-Chip for detecting living cells in the acidic environment of Venusian clouds	16.20-16.40
13MS3-AB-05	A.K.Pavlov et al	The effects of nearby Supernova and solar superflares on Earth biosphere evolution: mass extinctions and “flash of mutations”	16.40-17.00
13MS3-AB-06	V.I. Shematovich et al	Kinetic Monte Carlo model of the auroral electron precipitation into the N ₂ -O ₂ planetary atmosphere	17.00-17.20
13MS3-AB-07	I. E. Kuznetsova et al	Application of acoustoelectronic techniques to registration microbial objects in liquid	17.20-17.40
13MS3-AB-08	D Smith	The Functioning Microbiome as Link between Genes and Microbial Environment	17.40-18.00
13MS3-AB-09	Ahya Rezaei	Remote Sensing in Agriculture	18.00-18.20

13MS3-AB-10	N.E. Demidov and M. Ivanov	Speculative history of life on Mars	18.20-18.40
13MS3-AB-11	D.D. Mironov	Geochemical indication of desert overgrowth (by the example of the Sarykum sand complex)	18.40-19.00
POSTER SESSION , Session Astrobiology			19.00-19.35
7 posters * 5 min			
13MS3-AB-PS-01	V.K. Ilyin et al	Prospects for the application of microbial fuel cells in regenerative biological life support systems	
13MS3-AB-PS-02	Savio Torres de Farias	Life on Mars: What can the use of biosignatures tell us?	
13MS3-AB-PS-03	V.S. Cheptsov et al	Peptides preservation under high-dose irradiation with accelerated electrons	
13MS3-AB-PS-04	A. A. Belov and V. Cheptsov	Biodiversity of drought-tolerant bacteria: Astrobiological concern	
13MS3-AB-PS-05	D.A. Vedenev et al	Influence of perchlorates on water crystallization temperature and bacterial survivability in mechanical simulants of Mars regolith	
13MS3-AB-PS-06	D. D. Barbashin et al	Tolerance of arid ecosystems bacteria to sodium perchlorate: implications for Mars' habitability	
13MS3-AB-PS-07	D. D. Barbashin and D.Mironov	Growing pea plants in martian soil analogue with the addition nitrogen fixer bacteria	

Thursday, 13 October 2022			
Session 5. SMALL BODIES(including cosmic dust)			10.00-18.20
Conveners: Alexander BASILEVSKY, Alexander ZAKHAROV			
conference hall, second floor			
13MS3-SB-01	V. V. Busarev et al	Only a quarter of newly observed primitive asteroids are active	10.00-10.20
13MS3-SB-02	B. M. Shustov et al	Collisions as a possible reason of sublimation-dusty activity of main belt asteroids	10.20-10.40
13MS3-SB-03	T. C. Duxbury and N.Seregina	ESA MEX astrometric observations of the asteroid Psyche: the target of a NASA mission	10.40-11.00
13MS3-SB-04	A. Kochergin et al	Motion of dust in comet C/2021 A1 (Leonard)	11.00-11.20
13MS3-SB-05	M. Zheltobryukhov et al	Microphysics of dust in comet C/2021 A1 (Leonard) inferred by means of polarimetry	11.20-11.40
Coffee-break			11.40-12.00
13MS3-SB-06	T. V. Salmikova et al	On the conjecture of formation of the Martian moons Phobos and Deimos	12.00-12.20
13MS3-SB-07	S. I. Popel et al	Electrostatically produced dusty plasmas near the surface of Mercury	12.20-12.40
13MS3-SB-08	Vladimir Tchernyi and S. Kapranov	Role of Magnetism in the Separation of the Particles of the Saturn's rings	12.40-13.00
Lunch			13.00-14.00
13MS3-SB-09	Yu.S. Reznichenko et al	Dusty clouds evolution in the Martian atmosphere	14.00-14.20
13MS3-SB-10	I.E. Nadezhdina et al	Hyperion (C7) cartography: challenges and the first surface map	14.20-14.40
13MS3-SB-11	S.I. Ipatov	Probabilities of collisions of bodies ejected from the Earth with the terrestrial planets and the Moon	14.40-15.00
13MS3-SB-12	D.O. Glazachev et al	Assessing the consequences of asteroid and comet impacts on the Earth	15.00-15.20
13MS3-SB-13	T.Yu. Galushina et al	Modification of technique of asteroid observations on Terskol observatory	15.20-15.40
13MS3-SB-14	I. Kuznetsov et al	Experimental investigation of the dust particles lofting processes	15.40-16.00
Coffee-break			16.00-16.20
13MS3-SB-15	E. Chornaya et al	The 10-micron silicate feature in heterogeneous dust particles	16.20-16.40
13MS3-SB-16	A. Kartashova et al	The mass estimations of faint meteors	16.40-17.00
13MS3-SB-17	R. V. Zolotarev and B. Shustov	On the mass indices of meteor bodies	17.00-17.20
13MS3-SB-18	D. V. Belousov and A.Pavlov	Energy accumulation in icy bodies during long-term irradiation	17.20-17.40
POSTER SESSION ,			17.40-18.20
8 posters * 5 min			
13MS3-SB-PS-01	S.Y.Kuznetsov and V. Busarev	Statistic analysis of dynamic parameters and sizes of asteroids of the Adeona Family	
13MS3-SB-PS-02	T.I. Morozova and S. Popel	Influence of meteor flares on the development of modulation instability of electromagnetic waves in meteoroid tails	
13MS3-SB-PS-03	D.V. Petrov and E. Zhuzhulina	Influence of the internal structure of dust on the light-scattering properties of comet 29P/Schwassmann-Wachmann 1	
13MS3-SB-PS-04	M. A. Vasileva and E.Kuznetsov	Age estimation of Brugmansia asteroid family	
13MS3-SB-PS-05	Yu.N. Izvekova and S.Popel	Drift turbulence in dusty plasma near the Moon	
13MS3-SB-PS-06	E. V. Petrova and V.Busarev	Properties of particles in the exospheres of active asteroids: estimates based on the spectral features in the UV-Visible range	
13MS3-SB-PS-07	H.I. Abdussamatov	Lunar observatory aimed at monitoring and study of energy imbalance and climate of the Earth, near-Earth asteroids and comets, exoplanets, supernovae, and novae	
13MS3-SB-PS-08	A.S. Samokhin and M. Samokhina	About the 11th edition of the global trajectory optimization competition held in 2021 – “Dyson sphere” building	
RECEPTION			18.30-21.00

Friday, 14 October 2022			
Session 6. VENUS			10.00-18.05
Convener: Ludmila ZASOVA conference hall, second floor			
13MS3-VN-01	V.E. Rozhin et al	Geological history of the north region of Polik-mana Mons, Venus	10.00-10.20
13MS3-VN-02	A. S. Shimolina et al	Mapping of lava flows of Theia Mons, Beta regio, Venus	10.20-10.40
13MS3-VN-03	D. G. Malyshev et al	Geological history of Samodiva Mons region, Devana Chasma Quadrangle V-29, VENUS.	10.40-11.00
13MS3-VN-04	D. O. Amorim and Tamara Gudkova	PREM-based models of Venus' interior structure	11.00-11.20
13MS3-VN-05	T.I. Menshchikova et al	Model stress values for Venus: elastic case	11.20-11.40
Coffee-break			11.40-12.00
13MS3-VN-06	Boris Ivanov	Footprints of asteroid atmospheric explosions at the surface of Venus	12.00-12.20
13MS3-VN-07	P. D'Incecco et al	Idunn Mons as the landing site of the Venera-D mission: scientific relevance and possible operational tests on Mount Etna	12.20-12.40
13MS3-VN-08	D. A. Gorinov et al	Winds in the lower cloud level on the nightside of Venus from IR2 (AKATSUKI) 1.74 μm images	12.40-13.00
Lunch			13.00-14.00
13MS3-VN-09	M. Yu. Zolotov et al	Exploration of Venus atmosphere and surface with the upcoming NASA DAVINCI mission	14.00-14.20
13MS3-VN-10	L.V. Zasova et al	The Venera-D mission: progress in study	14.20-14.40
13MS3-VN-11	Gaurav Seth	Case study of Venus Surface Studies using PolSAR	14.40-15.00
13MS3-VN-12	E. Chatzitheodoridis et al	New instruments, methods, and experiments in astrobiology research: Venus and Mars	15.00-15.20
13MS3-VN-13	V.A. Zubko et al	Mission scenario of flight to Venus with landing at desired location on its surface	15.20-15.40
13MS3-VN-14	M.V. Gerasimov and JSD Team	Scientific Goals of the Venera-D Lander	15.40-16.00
Coffee-break			16.00-16.20
13MS3-VN-15	I. I. Vinogradov et al	Study of sulphurous and other components of the Venus atmosphere by laser absorption spectroscopy at the Venera-D mission	16.20-16.40
13MS3-VN-16	D. A. Belyaev et al	Venus Infrared Atmospheric Gases Linker (VIRAL): scientific concept for solar occultation experiment on board Venus Orbiter Mission	16.40-17.00
13MS3-VN-17	V. N. Gubenko and I.A.Kirillovich	Reanalysis of internal waves in the Venus's atmosphere by using Magellan radio occultation data	17.00-17.20
POSTER SESSION , Session Venus			17.20-18.05
9 posters * 5 min			
13MS3-VN-PS-01	I.V. Khatuntsev et al	Winds from the visible (513 NM) images obtained by the Venus Monitoring Camera onboard Venus Express	
13MS3-VN-PS-02	M.V. Patsaeva et al	From VMC/Venus Express to UVI/Akatsuki. long-term and longitude variations of zonal wind speed at the cloud top level near noon	
13MS3-VN-PS-03	D. A. Belyaev et al	Descent in the atmosphere of Venus with the Ultraviolet Spectrometer (DAVUS): scientific concept for a landing mission	
13MS3-VN-PS-04	V. N. Gubenko et al	Diffraction phenomena in radio occultation studies of the atmosphere of Venus by the satellites Venera-15 AND -16	
13MS3-VN-PS-05	E.N. Guseva and M. A. Ivanov	The spatial-genetic relationships of coronae, lobate plains and rift zones on Venus	
13MS3-VN-PS-06	C. H. G. Braga et al	Detailed mapping of large shield volcanoes on Venus – challenges and perspectives based on the study of Atira Mons, BAT region, Venus	
13MS3-VN-PS-07	E.G. Antropova et al	Characterization of the elongate cluster of "splotches" in the Phoebe Regio, Venus	
13MS3-VN-PS-08	V. A. Kotov	Motion of the Sun, Earth and Venus	
13MS3-VN-PS-09	N.P. Bulatova	The role of Russian science in the development of planetary science of the Solar System(from the XVIII century to the present day)	

Friday, 14 October 2022			
Session 7. EXTRASOLAR PLANETS			10.00-14.20
Convener: Alexander TAVROV room 200, second floor			
13MS3-EP-01	O.Ya. Yakovlev et al	Transiting exoplanet detection project at SAO RAS	10.00-10.20
13MS3-EP-02	Shingo Kameda et al	Upper atmospheres of Earth-like exoplanets around low-temperature stars	10.20-10.40
13MS3-EP-03	M.S. Rumenskikh et al	Insights from a Non-detection of HeI 23S Absorption of GJ436b	10.40-11.00
13MS3-EP-04	V.I. Shematovich and A.Avtavaeva	Non-thermal atmospheric loss for hot Neptune GJ3470 b	11.00-11.20
13MS3-EP-05	I.S.Savanov	Activity of the young star KEPLER-1627 with exoplanet	11.20-11.40
Coffee-break			11.40-12.00
13MS3-EP-06	I.F.Shaikhislamov et al	Space weather around hot exoplanets inferred from transit observations	12.00-12.20
13MS3-EP-07	A. V. Shepelin et al	Simulation of Aeronomy and Transit Absorption of Trace Elements in Atmosphere of Hot Exoplanets: Development of General Kinetic non-LTE Model	12.20-12.40
13MS3-EP-08	S.I. Ipatov	Scattering of planetesimals from the feeding zone of Proxima Centauri c	12.40-13.00
Lunch			13.00-14.00
POSTER SESSION , Session Extrasolar Planets			14.00-14.20
4 posters*5 min			
13MS3-EP-PS-01	A. G. Berezutsky et al	Possible transit features of the TOI-421b and TOI-421c in Ly α and HeI 10830 A lines	
13MS3-EP-PS-02	S. I. Ipatov	Mixing of planetesimals in the TRAPPIST-1 exoplanetary system	
13MS3-EP-PS-03	M.A. Efimov et al	On the transit spectroscopy features of warm mini-Neptunes in the HD-63433 system, revealed with their 3D numerical simulations	
13MS3-EP-PS-04	E. D. Kuznetsov and A.Perminov	Search for chains of resonances in the compact planetary system K2-72	