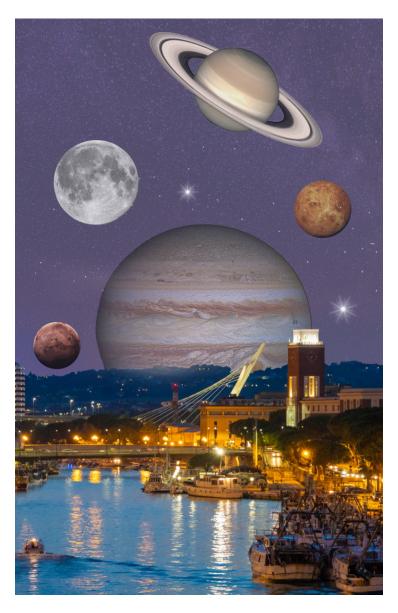






XX CONGRESSO NAZIONALE DI SCIENZE PLANETARIE

3-7 Febbraio 2025 Complesso Aurum – Pescara



PROGRAMMA POSTERS

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Davide Sulcanese Università D'Annunzio

Astro	obiologia e Astrochimica		
1	Hyperspectral VNIR imaging of Microbialites from lake Bagno dell'acqua, Pantelleria, Italy	Enrico	Bruschini
2	The Trieste ExoClimate Toolkit (ExCiT) a new Python+Numba framework for exoclimate Energy-Balance models	Michele	Maris
3	Microbial abundance across a salinity and mineralogical transect in the Ntwetwe pan of Botswana: implications for the search for life on Mars	Fulvio	Franchi
4	Survival and adaptations of the brine shrimp Artemia Salina under simulated Mars conditions	Maria Teresa	Muscari Tomajoli
5	The Pantelleria Bagno dell'acqua lake: a new Mars-like enviroment as a reactor for prebiotic chemistry - the 2024 campaign	Giovanna	Costanzo
6	Laboratory analog experiments to support detections of organics on Mars by deep UV Raman spectroscopy	Francesco	Renzi
7	Infrared characterization and stability studies under UV radiation of L-Histidine in nontronite to assist Mars missions in biosignature detection.	ilaria	bergamo
8	Investigation into the origins of biomolecular homochirality in early Earth/Mars environment	Mitri	Giuseppe
9	Microorganisms under simulated icy moon environments: MICRO ICY project, a step forward to solar system exploration	Claudia	Pacelli
0	Sulfur chemistry in Comets	Nadia	Balucani
11	Interaction between vegetation and snowball phases in the late proterozoic Earth	Erica	Bisesi
erza	a Missione		
12	ESCAPE MOON: how to explain meteor streams dynamics to kids	Elisa Maria	Alessi
13	The geology of Solar System worlds and beyond: a planetary geology dissemination project for secondary schools.	Paola	Cianfarra
14	PETRAS summer school and research campaign: the island of Vulcano as analog for planetary exploration	Alessandro	Pisello
15	The meteorite hall in the new "la Specola" exhibition of the mineralogical collection of the Natural History Museum of the University of Florence	Vanni	Moggi Cecch
16	Si Nomina Nescis, Perit et Cognitio Rerum. The Cataloging of Extraterrestrial Materials In Italy: State of the Art and Future Perspectives	Annarita	Franza
17	The planetary science wiki EDIT-A-THON	Arianna	Piccialli
18	Europlanet and Italian planetary community participation	Stavro	Ivanovski
	The Chianti Topics International Focus Workshop	Emanuele	Pace
20	The "Earth Moon Mars" project: development of the Earth-Mars network	Ugo	Cortesi

	ore, Meteoriti e Polvere interplanetaria		
21	Mineralogical characterization of the fusion crust of the Cavezzo L5 anomalous chondrite and first find of Ni2S sulphide.	Marianglona	Rondinelli
22	Graphite geothermometer for hypervelocity impacts	Oliver	Christ
23	Spectral Characterization of Lunar meteorite NWA 8687 and NWA 14188	Leda Alice	Galetti
24	Pine River and Mount Morris: two meteorites to study a unique parental	Cristian	Carli
25	Redox conditions from XAS spectroscopy on Brachinites and Brachinite-like ungrouped achondrites.	Valeria	De Santis
26	A record of aqueous alteration in the type 3 CO chondrite, ALHA77307: insights from phyllosilicate replacement of chondrule glass.	Yelena	Caddeo
27	Creating meteorite fusion crusts in laboratory: mineralogical characterization of the Tamdakht (H5) fusion crust produced during a plasmatron heating experiment	Gabriele	Giuli
28	Non-destructive analyses of GRO 95517 antarctic meteorite	Giovanni	Fanelli
29	Non-destructive techniques for the analyses of sensitive extraterrestrial materials: the case of Tarda meteorite.	Giovanni	Fanelli
30	Microchemical and mineralogical characterization of lunar meteorites aimed at the production and testing of lunar regolith simulants		De Santis
31	First find of coexisting Wadsleyite and Ringwoodite in the Alfianello L6 ordinary chondrite	Valeria	De Santis
32	chondrite?	Tiberio	Cuppone
33	Machine Learning for Meteoroid Lunar Impact Classification: A Study for the LUMIO Mission	Nishani	Vijayakumara
34	The Antarctic meteorite collection of the Museo Nazionale dell'Antartide	Alfonso	Fiorelli
35	New insights into (Al,Cu)-bearing micrometeorites from mt. Gariglione (italy)	Giovanna	Agrosi
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36 37	Analysis of Martian south polar steep scarps based on CTX and MOLA Advancing exoplanetary research and education at the Osservatorio Polifunzionale del Chianti		
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36 37 Picc 38 39 40 41	Analysis of Martian south polar steep scarps based on CTX and MOLA Advancing exoplanetary research and education at the Osservatorio Polifunzionale del Chianti Spectral and geological analysis of water ice in Oxo crater, Ceres: implications for ice origin and crater evolution. (Tsuchinshan-Atlas). Insights into CN production and molecular upper limits. above? Visible spectroscopic survey of near earth objects/potentially hazardous asteroids. Visible and near-IR spectroscopic characterization of different dynamical classes of comets. LICIACube, the first italian deep space mission: an ASI perspective	Bianca Pamela Simone monica	Pace Ranieri Cambianica leva lazzarin
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50	HyperLab.	Francesco	Carraro
51	Visible-Near Infrared spectral behavior of Mars-analogue clay, sulfate, and basalt mixtures	Beatrice	Baschetti
52	Laboratory infrared mesasurements on analog materials and meteorites in support of ESA HERA mission observations	Giovanni	Poggiali
53	Laboratory simulation of ion impact and back-scattering on Mercury surface analogues for planetary space weather investigation	Rosanna	Rispoli
54	Low temperature phase transitions in the visible and near-infrared (VNIR) reflectance spectra of (NH4)2HPO4 and (NH4)HSO4 salts	Maximiliano	Fastelli
55	Boundary conditions in which folding can be induced as a primary compensator of shortening along thrust faults on Mercury	Gene Walter	Schmidt
56	MICROMED terrestrial surveys: in situ study of airborne dust and its electrification	Gabriele	Franzese
57	Alteration involving Na-rich fluids and alkaline igneous rocks close to planetary surfaces: possible implications for past climate on Mars	Ciprian	Popa
58	Characterization of the Hexahydrite infrared reflectance spectra at typical Jupiter's icy moons environmental conditions	Francesca	Fumari
59	VNIR and MIR spectroscopy of lab-made silicate glasses as analogues for Mercury	Alessandro	Pisello
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60 61 62 63 64	QUASAR, a python-based open-source project for spectral and hyperspectral data analysis: from lab applications to JUICE-MAJIS data processing and analysis. QUASAR, a python-based open-source project for spectral and hyperspectral data analysis: from lab applications to JUICE-MAJIS data processing and analysis: from lab applications to JUICE-MAJIS data processing and analysis. Selection criteria of piezoelectric actuators for space deployable optics for remote sensing applications (DORA) Laboratory spectral characterization of the Didymium and Polystyrene filters used in the internal calibration unit of MAJIS In-flight performance monitoring and calibration opportunities of the JANUS multispectral camera onboard ESA-JUICE mission: in-flight campaign and expectations from Lunar-Earth Gravity Assist Open-Source Tools for Observation Planning and Uplink Operations: Components of the JANUS System for the JUICE Mission. An innovative facility for the simulation of Martian sand/dust phenomena	Stefano Igor Stefania Livio	Rubino Di Varano Stefani Agostini
60 61 62 63 64	QUASAR, a python-based open-source project for spectral and hyperspectral data analysis: from lab applications to JUICE-MAJIS data processing and analysis. QUASAR, a python-based open-source project for spectral and hyperspectral data analysis: from lab applications to JUICE-MAJIS data processing and analysis: from lab applications to JUICE-MAJIS data processing and analysis. Selection criteria of piezoelectric actuators for space deployable optics for remote sensing applications (DORA) Laboratory spectral characterization of the Didymium and Polystyrene filters used in the internal calibration unit of MAJIS In-flight performance monitoring and calibration opportunities of the JANUS multispectral camera onboard ESA-JUICE mission: in-flight campaign and expectations from Lunar-Earth Gravity Assist Open-Source Tools for Observation Planning and Uplink Operations: Components of the JANUS System for the JUICE Mission. An innovative facility for the simulation of Martian sand/dust phenomena,	Stefano Igor Stefania Livio	Rubino Di Varano Stefani Agostini Penasa
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71	Landslides and mass movements in a connection channel between Aram Chaos and Ares Vallis	Marco Emanuele	Discenza
72	Large rock avalanches in the region of Hydraotes Chaos and Tiu Valles: absolute dating and evolutionary model	Marco Emanuele	Discenza
73	Application of manual classification and Voronoï tessellation for improving absolute dating of planetary surfaces	Marco Emanuele	Discenza
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78	Identification of hydrated minerals and age estimation of the impact craters located at Oxia Planum on Mars	Maria Catalina	Torres
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80	Topographic influence on atmosphere over Tharsis	Paulina	Wolkenberg
81	Azalea project: preliminary results of an african (Ahnet basin, algerian Sahara) analog for a simulated Mars Sample Return mission.	Yelena	Caddeo
82	Multi-approaches analysis on martian and terrestrial rock glaciers: paleoclimatic implications and evaluation of permafrost behaviour	Silvia	Bertoli
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84	Analysis of three candidate martian Eskers : Implications for possible local wet-based glaciations in Deuteronilus Mensa, Mars	Giovanni	Munaretto
85	SPH model for volatile emissions from mars' subsurface triggered by the drill onboard the ESA's Rosalind Franklin rover.	Luca	Maggioni
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87	Geological mapping and analysis of north-west Mount Sharp region (Gale crater, Mars)	Susanna	Tonoian
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89	Crustal compositions of Mercury from thermodynamic modelling, laboratory experiments, and spectral analysis: insights from Glinka crater	Camilla	Cioria
90	New crater catalogues of the Moon and Mercury using multimodal deep learning and extraction of morphometric parameters	Cristina	Re
91	Fault-crater interactions on Mercury: Displacement patterns and geological implications	Antonio	Sepe

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	Insights from the ANTHELIA project: a realistic geometry-based study of the Mare Tranquillitatis pit's thermal and volatiles properties.	Pamela	Cambianica
97	Characterization and feasibility of lunar landing sites: the Ingenii Basin case	Gloria	Tognon
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99	Enforcing Multiple Constraints on the Interior Structure of Ganymede: a Machine Learning Approach	Giulio	Macrì
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101	Simulations of Uranus Spectra at Visible and Near-Infrared Wavelengths Using ARS	Davide	Grassi
102	Tidal Love numbers for the moons of Uranus	Anastasia	Consorzi
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	ts and Satellites JUICE-Prisma joint observations of the Earth: an opportunity to connect two communities	Angelo	Zinzi
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	Advancements in the MATISSE tool for geological analysis of planetary surfaces	Veronica	Camplone
	Combining global coronal and volcanic datasets to analyze tectono-magmatic trends on Venus	Nicholas John	Montiel
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	Echo Terrae trace: an open-source toolset for subsurface sounding radar integrated analysis	Giacomo	Nodjoumi
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119	FRESCO, a Python free open source tool to map, select, extract and ananlyze CRISM spectral data	Marco	Baroni