

National Space Science Symposium-2026, Umiam, Meghalaya

PS-3 (Solar and Planetary Sciences)

Details and type of presentation for the accepted abstracts

SN	Abstract ID	Registration ID	Abstract Title	Authors	Type of Presentation
1	NSSS2026ABS029	NSSS2026REG0278	Dynamics of Reconnection Nanojets in Eruptive and Confined Solar Flares	Annu Bura, Arpit Kumar Shrivastav, Ritesh Patel, Tanmoy Samanta, Sushree S Nayak, Ananya Ghosh, Shanwlee Sow Mondal, Vaibhav Pant, Daniel B. Seaton	Oral
2	NSSS2026ABS036	NSSS2026REG0111	Determination of lunar gamma continuum and lunar neutron leakage fluxes for different lunar compositions using GEANT4	Shipra, Debabrata Banerjee and S. K. Goyal	Poster
3	NSSS2026ABS037	NSSS2026REG0432	Analysis of solar flare and sunspots on 4th Jan 2025 and its effect on space weather	Akash Vinod Shirke, Balendra Pratap Singh	Poster
4	NSSS2026ABS050	NSSS2026REG0137	Magma Chamber Longevity on Mars and its Controls on Crustal Structure and Composition	Arka Pratim Chatterjee, Christian Huber, James W. Head III, Olivier Bachmann	Oral
5	NSSS2026ABS053	NSSS2026REG0471	A new approach in pulse amplitude measurement technique for radiation or particle detectors	Dr. Arpit Patel, Bhumi Patel	Poster
6	NSSS2026ABS059	NSSS2026REG0121	Magnetosphere Formation of a Tidally Locked Planet or Satellite.	Deepanshu Chouhan	Oral

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7	NSSS2026ABS061	NSSS2026REG0118	Estimating Solar Wind Velocities Using Spacecraft Radio Signals	Keshav Aggarwal, Raj K. Choudhary, Abhirup Datta	Oral
8	NSSS2026ABS075	NSSS2026REG0393	Rate of Occurrence of Major Solar Plasma Disturbances in Interplanetary Space	Y. P. Singh	Oral
9	NSSS2026ABS087	NSSS2026REG0445	EdgeDeploy-SolarNet: Compact Deep Learning for Real Time Solar Flare Prediction	Amrit Roy, Aayusha Singh	Poster
10	NSSS2026ABS088	NSSS2026REG0812	Analytical Solutions for MHD Wave Propagation in Exponentially Stratified Solar Atmosphere	Aayusha Singh, Amrit Roy	Oral
11	NSSS2026ABS090	NSSS2026REG0093	Impact of High-Intensity Long-Duration Continuous Auroral Electrojet Activity (HILDCAAs) on relativistic electrons in Earth's Radiation Belt during Van Allen Probes Era.	Ayushi Nema, Ankush Bhaskar, Kamlesh N. Pathak, Abhirup Datta	Oral
12	NSSS2026ABS092	NSSS2026REG0824	Investigating propagation of small-scale flare heat flux in the lower and upper atmosphere of solar active region	Girjesh Gupta, Ananya Rawat, Helen Mason, Robertus Erdelyi	Poster
13	NSSS2026ABS097	NSSS2026REG0862	Digital cloud tracking of Venusian clouds for atmospheric winds	Abhineet Shyam and Rajesh K Upadhyaya	Oral

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SN	Abstract ID	Registration ID	Abstract Title	Authors	Type of Presentation
14	NSSS2026ABS099	NSSS2026REG0358	A Comparative Study of Near Earth Solar Wind Parameters during Different Solar Epoch	Gulfam, Himanshu, Vinit Kumar, Sachin Kumar, Rupesh M. Das, Yogendra K. Gautam, Beer Pal Singh and Kavita Sharma	Poster
15	NSSS2026ABS106	NSSS2026REG0891	Geomagnetic storm induced attitude disturbance in GEO spacecraft	R. Subramani, M.R. Rajesh Kannan, M.Y. Akram ,Sridhar P. Kulkarni ,Srinivasa Murthy D, Kiran K	Oral
16	NSSS2026ABS109	NSSS2026REG0879	CHANDRAYAAN-3: ATMOSPHERIC CORRECTIONS TO RAW TRACKING DATA	Garima Aggarwal, Pramod Kumar Soni, ubramanian Boominathan	Oral
17	NSSS2026ABS110	NSSS2026REG0893	Impact of space weather parameters on evolution of GEO Transfer Orbit - a sensitivity analysis	M. R. Rajesh Kannan	Oral
18	NSSS2026ABS124	NSSS2026REG0944	Vegetation on planet Mars: Solutions for soil fertility challenges	Kuramapu Prem Sai Mahesh	Poster
19	NSSS2026ABS137	NSSS2026REG0600	Drivers of global Pc5 pulsation during main phase of 10th May 2024 super intense storm	Shreya Mishra, Jayashree Bulusu, Archana Radhakrishnan, and A.P Dimri	Oral
20	NSSS2026ABS150	NSSS2026REG0467	An intense geomagnetic storm	P Vemareddy and Selva	Oral

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SN	Abstract ID	Registration ID	Abstract Title	Authors	Type of Presentation
			originated from stealth Coronal Mass Ejection: remote and in situ observations by near radially aligned spacecraft	Bharathi K.	
21	NSSS2026ABS151	NSSS2026REG0599	Characterization of plasma boundaries of Mars during CME event May 17-19, 2024	Pranjali Padhye, Chinmaya Nayak, Suraj Gupta, Satyavir Singh, A.P. Dimri	Poster
22	NSSS2026ABS159	NSSS2026REG1072	Deciphering Biosignatures in Hypersaline Environments: Insights from the Rann of Kutch as a Martian Analogue	Kanak B. Sharma, Kruti Jaruriya, Anand Giri, Harshad V. Kulkarni	Poster
23	NSSS2026ABS160	NSSS2026REG1037	Dancing Lunar Dust: Electrostatic Detachment and Dynamics	Trinesh Sana, S. K. Mishra	Poster
24	NSSS2026ABS171	NSSS2026REG0322	Pinching of ICME Flux Rope: Unprecedented Multipoint Observations of Internal Magnetic Reconnection during Gannon's Superstorm	Shibotosh Biswas, Ankush Bhaskar, Anil Rghav, Ajay Kumar, Kalpesh Ghag, Smitha V. Thampi, Vipin K. Yadav	Oral
25	NSSS2026ABS176	NSSS2026REG1095	Seismological applications of 3-min slow magnetoacoustic waves propagating along individual umbral fan loops	Ananya Rawat, Girjesh R Gupta, Tom Van Doorselaere, S. Krishna Prasad, and Robertus Erdelyi	Oral

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SN	Abstract ID	Registration ID	Abstract Title	Authors	Type of Presentation
26	NSSS2026ABS178	NSSS2026REG1108	Tracing Thermodynamic Evolution of Coronal Mass Ejections: Imprints on Global Kinematics, Interactions, and Space Weather Impact	Soumyaranjan Khuntia, Wageesh Mishra, Sudheer K. Mishra, Yuming Wang, Jie Zhang, Teresa Nieves-Chinchilla, Shaoyu Lyu and Anjali Agarwal	Oral
27	NSSS2026ABS183	NSSS2026REG1119	Thermophysical properties of lunar regolith at Chandrayaan-3 landing site using in-situ observations from ChaSTE onboard Chandrayaan-3 lander	R. RENJU	Oral
28	NSSS2026ABS193	NSSS2026REG0807	Determination of Electron Energy Distribution Function EEDF and Magnetic Confinement in Low-Temperature Plasmas using Single Langmuir Probe	Pallab Gogoi	Oral
29	NSSS2026ABS207	NSSS2026REG1182	2-D Photochemical Modeling of the Venus Thermosphere and Ionosphere: Effects of Day-to-Night Transport	Krishnaprasad Chirakkil, Michael Chaffin, Bethan Gregory, Eryn Cangi, Varun Sheel, Anil Bhardwaj	Oral
30	NSSS2026ABS216	NSSS2026REG1165	Investigation of Martian UV Dayglow Emissions in the Southern Hemisphere during Solar Quiet-time Conditions: Insights from Multi-year MAVEN-IUVS Observations	Aadarsh Raj Sharma, Lot Ram, Sumanta Sarkhel	Oral

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SN	Abstract ID	Registration ID	Abstract Title	Authors	Type of Presentation
31	NSSS2026ABS227	NSSS2026REG0726	Automated Detection of Solitary Waves Using MAVEN Spacecraft Data	Sahil Pandey, Amar Kakad, and Bharati Kakad	Poster
32	NSSS2026ABS232	NSSS2026REG1204	Connecting spicules and propagating coronal disturbances using radiative MHD simulations of the solar atmosphere	Sankalp Srivastava, Piyali Chatterjee, Sahel Dey, Robertus Erdelyi	Oral
33	NSSS2026ABS234	NSSS2026REG0795	Generation of Magnetosonic Waves in Planetary Ionospheres	Amrutha, Satyavir Singh, K. C. Barik, G. S. Lakhina	Poster
34	NSSS2026ABS243	NSSS2026REG1225	Detection of Na, K and other species in the lunar atmosphere	Yogita Patel, P. Rojo, V. Ivanov, M. Caballero	Poster
35	NSSS2026ABS248	NSSS2026REG1109	Long-term trend analysis on degradation of solar cells due to space weather	Mullapudi Balaram, Suresh Babu S, Subramani R, Srinivasa Murthy D, Kiran K	poster
36	NSSS2026ABS250	NSSS2026REG1236	The Russell-McPherron Effect and the Butterfly-Shaped Coronal Hole: A Case Study in Equinox-Enhanced Geomagnetic Activity	Prajesh T	Poster
37	NSSS2026ABS254	NSSS2026REG1276	Nonlinear analysis of Ion-acoustic Solitary Waves in Martian Induced Magnetosphere	Nivedita Chakraborty, Devanandhan S, Satyavir Singh, Gurbax Singh Lakhina	Poster

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SN	Abstract ID	Registration ID	Abstract Title	Authors	Type of Presentation
38	NSSS2026ABS265	NSSS2026REG1286	Long-term Study of Active Longitudes from Kodaikanal Ca II K data	Dibya Kirti Mishra, Bibhuti Kumar Jha, Subhamoy Chatterjee, Dipankar Banerjee	Poster
39	NSSS2026ABS271	NSSS2026REG1094	A new global tectonic map of the moon with inclusion of newly identified lobate scarps	Abhisek Mishra and P. Senthil Kumar	Oral
40	NSSS2026ABS273	NSSS2026REG0247	A Comparative Analysis of Earth Magnetopause Response During the Mothers Day Storm Based on Multi Satellite Data	Amar Deep, Abhirup Datta, Bhuvnesh Brawar, Keshav Aggarwal	Oral
41	NSSS2026ABS275	NSSS2026REG0876	Late Amazonian Volcanism, Tectonism, and Boulder Fall Activities in the Elysium Volcanic Complex, Mars	Vivek Krishnan, P Senthil Kumar and Tomson J K	Poster
42	NSSS2026ABS276	NSSS2026REG0254	New constraints on water ice content in the near surface of Cabeus crater floor near the lunar South Pole using Chandrayaan-2 DFSAR data	Sriram S. Bhiravarasu, Inderkumar Kochar, Bradley J. Thomson, Gerald W. Patterson, Tathagata Chakraborty, Deepak Putrevu	Oral
43	NSSS2026ABS283	NSSS2026REG0386	Estimation of Solar Differential Rotation through SFD image observed by NoRH	Dr. Vivek Kumar Singh, Dr. Satish Chandra, Ved Prakash Gupta	Poster

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SN	Abstract ID	Registration ID	Abstract Title	Authors	Type of Presentation
44	NSSS2026ABS295	NSSS2026REG1332	Development of Data Archive Migration Plan from PDS3 to PDS4 for Chandrayaan 1 Terrain Mapping Camera and Hyper Spectral Imager	Ajay Kumar Prashar, Abdullah, Shweta, Kannan V Iyer, K Suresh and Amitabh	Oral
45	NSSS2026ABS301	NSSS2026REG0948	Changing Perspectives of Thermophysics, Water-ice and Volatiles on the Moon from Chandrayaan-3's in-situ observations	K. Durga Prasad, G. Ambily, Chandan Kumar, P. Kalyan Reddy and Anil Bhardwaj	Oral
46	NSSS2026ABS316	NSSS2026REG1358	Investigating Nonlinear Quenching Effects on Polar Field Buildup Using Physics-Informed Neural Networks	Jithu J Athalathil, M. H. Talafha, Bhargav Vaidya	Poster
47	NSSS2026ABS321	NSSS2026REG1354	Mineralogical, chemical, and isotopic study of Martian meteorite NWA 7397	Amit Basu Sarbadhikari, Varsha M. Nair, G. N. S. Sree Bhuvan, T. Vijaya Kumar, Nilanjana Sorcar, Sneha Mukherjee, E. V. S. S. K. Babu, Jyotiranjana S. Ray	Oral
48	NSSS2026ABS322	NSSS2026REG1357	Petrogenesis of Poikilitic Shergottite NWA 1950: Unravelling Martian Mantle Sources	Varsha M. Nair , A. Basu Sarbadhikari , G. N. S. Sree Bhuvan , T. Vijaya Kumar , N. Sorcar, S. Mukherjee , E.V. S. S. K. Babu , J. S. Ray	Poster

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SN	Abstract ID	Registration ID	Abstract Title	Authors	Type of Presentation
49	NSSS2026ABS345	NSSS2026REG1098	Real-time Regional Forecasting of CME Impacts in India using Aditya-L1 and GNSS Signals	Preksha Choudhury and Devansh Bhatia	Poster
50	NSSS2026ABS350	NSSS2026REG0682	On-orbit performance of Aditya L1 solar array	Neha Jain,Pushpanjali H C,Sucheta K H,Dr Uma B R,Krishna priya G,Dr. Pradeep K Peter,Neelavathy M	Poster
51	NSSS2026ABS351	NSSS2026REG1079	Characterization of the Topside Ionospheric Bulge in the Venusian Ionosphere	Satyandra M. Sharma and Varun Sheel	Oral
52	NSSS2026ABS358	NSSS2026REG1342	L-Band Radar Study of Irregular Mare Patches on the Moon: Sosigenes, Hyginus, and Cauchy-5	Deepa Kumari and S. S. Bhiravarasu	Poster
53	NSSS2026ABS374	NSSS2026REG1423	Modelling Thermophysical Environment of Lunar Poles: Implications to Future Exploration	G. Ambily, and K. Durga Prasad	Poster
54	NSSS2026ABS377	NSSS2026REG1293	Coronal magnetometry through Hanle effect in EUV spectral lines	K. Nagaraju, Roberto Casini, Sarah Gibson, Raveena Khan, M S Savitha	Oral
55	NSSS2026ABS385	NSSS2026REG1091	A Comparative Chemical Alteration Study of Jezero and Gale Craters Using Perseverance and Curiosity Rover Data	Aritra Barua	Poster

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SN	Abstract ID	Registration ID	Abstract Title	Authors	Type of Presentation
56	NSSS2026ABS397	NSSS2026REG1480	An Investigation into the Solar Origins of Geoeffective Coronal Mass Ejections from 1997 to 2024	Saurabh Tripathi, Tanmoy Samanta, Jayant Joshi	Poster
57	NSSS2026ABS402	NSSS2026REG0984	The antiquity of feldspathic highland materials of Chandrayaan-3 soil and its potential geochemical match with lunar meteorites	Dwijesh Ray, Rishitosh K. Sinha, Anil Bhardwaj and Chandrayaan-3 team	Oral
58	NSSS2026ABS411	NSSS2026REG0132	Cosmic ray exposure ages of meteorites	Ramakant R. Mahajan	Oral
59	NSSS2026ABS414	NSSS2026REG0882	Chemical Species and their Variabilities in the Atmosphere of Venus: Insights from Models and Observations	Varun Nikam, Jayadev Pradeep and S. V. Sunilkumar	Oral
60	NSSS2026ABS416	NSSS2026REG0863	Enabling Safe Martian Landings through Dust Storm Monitoring with Radio Occultation Payloads	Kumar Harshit, Bindu K. R., Deepali C Vaishya, Senthil Kumar V., Neelavathy M.	Poster
61	NSSS2026ABS418	NSSS2026REG0521	Concept Design of Impact Flux Monitor for Hypervelocity Particle Characterization in the Lunar Exosphere	Kiran Lakshmipathaiah, S. Narendranath, Monoj Bug, Ghanshyam Kumar and Radhakrishna V	Oral
62	NSSS2026ABS419	NSSS2026REG0137	Linking planetary scale spatio temporal trends in magma compositions and volcanic resurfacing on Mars	Arka Pratim Chatterjee Meredith Townsend Christian Huber James W Head Olivier Bachmann	Poster

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SN	Abstract ID	Registration ID	Abstract Title	Authors	Type of Presentation
63	NSSS2026ABS420	NSSS2026REG0137	Tracking magma ascent and storage in the martian crust with P zoning in olivines	Arka Pratim Chatterjee Julien Allaz Christian Huber Luiz Morales Amanda Ostwald Olivier Bachmann	Poster
64	NSSS2026ABS427	NSSS2026REG1261	ASPEX-STEPS on board Aditya-L1: Configuration, Performance and High-energy particle measurements from the Sun-Earth L1 point	Shiv Kumar Goyal, Jacob Sebastian, Dibyendu Chakrabarty, Santosh V. Vadawale, M. Shanmugam, Bijoy Dalal, Aakash Gupta, Neeraj Kumar Tiwari, Arpit R. Patel, Aveek Sarkar, Piyush Sharma, et. al.	Oral
65	NSSS2026ABS428	NSSS2026REG1261	Miniaturized Neutral and Ion Mass Spectrometer for the Future Space Missions	Shiv Kumar Goyal, Abhishek J. Verma, Pankaj Kushwaha, Mohit Soni, Deepak Painkra, Chithra, Jacob Sebastian, Nirbhay Upadhyay, Piyush Sharma, et.al.	Oral
66	NSSS2026ABS437	NSSS2026REG1474	Towards Understanding Bright and Dark Patterns of Lunar Swirls at the Global Scale	Subhangini Soni and Megha Bhatt	Poster

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SN	Abstract ID	Registration ID	Abstract Title	Authors	Type of Presentation
67	NSSS2026ABS440	NSSS2026REG1012	A novel method for detection and characterization of lunar pyroclastic deposits	Dibyendu Misra, Megha Bhatt, Christian Woehler, Marcel Hess, Shyama Narendranath, Neeraj Srivastava, Anil Bhardwaj	Poster
68	NSSS2026ABS445	NSSS2026REG0456	Spectral Analysis Across Chandrayaan Mission Landing Sites: A Comparative Study	Harshaditya Gaur, Saloni Avaghade, Vinay Kumar	Poster
69	NSSS2026ABS458	NSSS2026REG1583	Long Term Variability of Cosmic Ray Diurnal Anisotropy	Ambika Singh	Poster
70	NSSS2026ABS463	NSSS2026REG0853	On the effect of H3plus ions on the characteristics of electrostatic solitary waves and double layers in Ganymede observed by Juno Spacecraft	R. Rubia, M. B. Dhanya, Kuldeep Singh and Ioannis Kourakis	Oral
71	NSSS2026ABS469	NSSS2026REG1566	Exploring Internal Gravity Waves in Venus's Atmosphere with Akatsuki Observations	Ancy Jerald ¹ , Dr. T. Maria Antonita, Dr. Deepa.V	Poster
72	NSSS2026ABS470	NSSS2026REG1566	Exploring Internal Gravity Waves in Venus s Atmosphere with Akatsuki Observations	Ancy Jerald, Dr. T. Maria Antonita, Dr. Deepa.V	Oral
73	NSSS2026ABS471	NSSS2026REG1596	Analysis of Aero-braking on Venus	Vikram V, Anantha N Rao	Poster

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74	NSSS2026ABS478	NSSS2026REG0706	Magnetotail effect of electron plasma density from RAMBHA-LP payload of Pragyan rover	Soumyasree Guin, Dr. Swastika Chakraborty	Oral
75	NSSS2026ABS479	NSSS2026REG1163	Differential Rotation of the Solar Photosphere Observed Through SDO HMI	Satish Chandra, Vivek Kumar Singh, Ved Prakash Gupta	Poster
76	NSSS2026ABS485	NSSS2026REG1180	Study of Chromospheric components Mg II lines and Solar Lyman alpha during Solar Cycles 22 to 24	P. R. Singh, C. M. Tiwari	Poster
77	NSSS2026ABS489	NSSS2026REG0810	Seasonal Evolution of Titan's Middle Atmosphere as simulated by the Titan Weather Research and Forecasting Model	N. Koushik, A. Anamika, K. Kishore Kumar	Poster
78	NSSS2026ABS494	NSSS2026REG0144	Cerberus Tholi region, Mars: Record of Volcanism, Glacial, Fluvial, and seismic activities	Vijayan S, Rishav Sahoo	Oral
79	NSSS2026ABS496	NSSS2026REG1682	Spectral Insights into Carbonaceous Chondrites Origins: Correlating Main-Belt Asteroids with CV Chondrites	A P Singh, S S Pillai, K K Marhas, K V N G Vikram and S Bhattacharya	Oral
80	NSSS2026ABS497	NSSS2026REG1610	Hydrothermal Evolution of CM Chondrites : A Closed-System Simulation	Antariksha Mitra, Shreeya Natrajan, Kuljeet Kaur Marhas	Poster

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81	NSSS2026ABS500	NSSS2026REG1693	Diverse carbon phases of insoluble organic matter (IOM) in enstatite meteorites: Existence of Nanoglobules and Graphitised carbons	Neha, Kuljeet Kaur Marhas	Poster
82	NSSS2026ABS501	NSSS2026REG1579	Crater Rim-Breaching Events as an Indicator of Paleofloods on Mars	Rishav Sahoo, Vijayan S	Oral
83	NSSS2026ABS508	NSSS2026REG1650	Influence of Water Ice Clouds on Martian Oxygen Corona over Tharsis and Hellas	Supratim Chatterjee and Anirban Guha	Oral
84	NSSS2026ABS520	NSSS2026REG1690	Origin of meteoritic organics: insights from Insoluble Organic Matter Analogues	S. Natrajan, K.K.Marhas, V. Gayathri, G. Mohit, Neha.	Poster
85	NSSS2026ABS521	NSSS2026REG1549	Micro-Raman Study of Graphite in IAB Iron Meteorites	Vikram Goyal, Kuljeet Kaur Marhas	Poster
86	NSSS2026ABS522	NSSS2026REG1709	Martian analogues from the Indian subcontinent: Implications for hydrological activity on Mars	Anil Chavan, Vivek Bhole, Vinamrata Mahor, Manish Rajpurohit, Kimi K.B. Rishav Sahoo, Kamlesh Kumar, Vijayan S, Subhash Bhandari, M.G. Thakkar	Oral
87	NSSS2026ABS523	NSSS2026REG1692	Melt Inclusions: Estimation of initial mantle magma source composition from melt inclusions in Martian Meteorites	Manoj Jat, Dipak K. Panda	Poster

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88	NSSS2026ABS524	NSSS2026REG1074	Investigating ICME Substructures Using Ion Energy Flux Spectrograms from Aditya-L1/SWIS	Shivam Parashar, Dibyendu Chakrabarty, Prashant Kumar, Abhishek Kumar, Bhas Bapat, Aveek Sarkar, Anil Bhardwaj, Manan S. Shah, Hiteshkumar L. Adalja, Arpit R. Patel, et.al.	Oral
89	NSSS2026ABS525	NSSS2026REG1073	Multi-directional investigations of suprathermal ions during quiet and disturbed times using ASPEX/Aditya L1 measurements	Aakash Gupta, Dibyendu Chakrabarty, Santosh Vadawale, Aveek Sarkar, Bijoy Dalal, Shiv Kumar Goyal, Jacob Sebastian, P. Janardhan, Nandita Srivastava, M. Shanmugam, et. al	Oral
90	NSSS2026ABS529	NSSS2026REG1614	CraterMorpho: A customized toolbox for Automatic extraction of morphometric parameters and classification of Lunar craters using Chandrayan-2 TMC-2 images	Mimansa Sinha, Sanchita Paul, Mili Ghosh Nee Lala	Poster
91	NSSS2026ABS531	NSSS2026REG1700	High precision Secondary ion mass spectrometry of ²⁶ Al- ²⁶ Mg isotope systematics of extremely rare Ca-Al-rich inclusions and Al-rich chondrules in unequilibrated	Ritesh Kumar Mishra, Kuljeet Kaur Marhas, Justin I. Simon, Yves Marrocchi, and Johan Villeneuve	Oral

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			ordinary chondrites		
92	NSSS2026ABS536	NSSS2026REG1564	A Study of the Impact of Solar flare X-ray flux and Interplanetary Conditions on the Geomagnetic Field and Their Effects Across Different Latitudes	Gopika S. Vijayan, Dr.Tiju Joseph Mathew, Dr.Abraham A	Poster
93	NSSS2026ABS544	NSSS2026REG1719	LUNAR NEAR SURFACE PLASMA ENVIRONMENT RESULTS FROM RAMBHA LP ONBOARD CHANDRAYAAN 3 LANDER	Manju G, Tarun Kumar Pant, N Mridula, Mosaraff Hossain, K M Ambili, T V Sruthi, K S Vishnupriya, P Pradeep Kumar, P Sreelatha, et.al.	Oral
94	NSSS2026ABS547	NSSS2026REG1731	Unravelling shallow crustal structure of Mars from Insight SEIS	Prathmesh Tari, Mala S. Bagiya, A. Manikho Rajina, Satish Maurya, Priyeshu Srivastava, A. P. Dimri	Poster
95	NSSS2026ABS548	NSSS2026REG1351	Ablation of meteorite across inner solar system planets	Srirag Nambiar, Jayesh Pabari, Sonam Jitarwal and Rashmi	Poster
96	NSSS2026ABS552	NSSS2026REG1634	Design, Development and Performance Evaluation of Different Configurations of Lightning Instrument for VEnus (LIVE)	S. Jitarwal, J. P. Pabari, S. Nambiar and Rashmi	Poster

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97	NSSS2026ABS555	NSSS2026REG1733	Type II radio bursts and their source sizes	D. E. Morosan, V. Mugundhan, P. Zhang, J. Magdalenic, P. Zucca, E. K. J. Kilpua, F. Daei	Poster
98	NSSS2026ABS557	NSSS2026REG1569	Strong energization of solar energetic particles as evident from measurements by ASPEX-STEPS on board Aditya-L1	Bijoy Dalal, Dibyendu Chakrabarty, Jacob Sebastian, Santosh Vadawale, Shiv Kumar Goyal, M. Shanmugam, Aakash Gupta, Anil Bhardwaj, Aveek Sarkar, P. Janardhan, et. al.	Oral
99	NSSS2026ABS559	NSSS2026REG1728	Origins and Transport Mechanisms of Olivine-Rich Lithologies in the Montes Haemus Region on the Moon	Suyash Sharma, K. N. Kusuma, Nabamita Chaudhuri, and Subhadip Bhadra	Poster
100	NSSS2026ABS562	NSSS2026REG1542	Brill crater Moon: Insights into Polar Region Volatiles	Rama Subramanian V, Rishav Sahoo, Vijayan S.	Poster
101	NSSS2026ABS570	NSSS2026REG0843	Terraforming the mars for humans colonization: Problems and How we can solve it.	Parv Mangal	Poster
102	NSSS2026ABS580	NSSS2026REG1744	Impact of 2024 Space-Weather Events on the Martian Ionosphere: A Comparative Analysis	Sahil Semwal, MV Sunil Krishna	Oral

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SN	Abstract ID	Registration ID	Abstract Title	Authors	Type of Presentation
103	NSSS2026ABS584	NSSS2026REG1752	First in-situ thermophysical measurements of high latitude lunar regolith by Chandra's Surface Thermophysical Experiment (ChaSTE) instrument onboard Chandrayaan-3 lander	Nizy Mathew, Fazil Mohammad, Sathiyamoorthy V.	Oral
104	NSSS2026ABS585	NSSS2026REG0360	From Models to Measurements: Uniting MHD Simulations with Space-Based Data	Bhargav Vaidya	Oral
105	NSSS2026ABS589	NSSS2026REG1759	Effects of Magnetic Clouds on Geo magnetic fields	S. G. Singh	Poster
106	NSSS2026ABS591	NSSS2026REG1758	Investigation of the response of Martian environment to the passage of a hybrid event with Coronal Mass Ejections (CMEs) and Corotating Interaction Regions (CIRs)	Venkataraman V. and Smitha V. Thampi	Oral
107	NSSS2026ABS603	NSSS2026REG1745	From Shape to Activity: Thermo-Physical Simulations of Cometary Nuclei	Akshat Rawat	Oral
108	NSSS2026ABS641	NSSS2026REG1796	Design of a neutron spectrometer to study neutron emission from solar flares	P. Sreekumar, Ashwini U., and Ahmet Ilker Topuz	Poster
109	NSSS2026ABS652	NSSS2026REG1281	Exploring the Mineralogical Diversity of the Lunar South Pole: Insights from Chandrayaan Datasets	Suyash Sharma, Rajesh V.J., Shyama Narendranath	Poster

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SN	Abstract ID	Registration ID	Abstract Title	Authors	Type of Presentation
110	NSSS2026ABS654	NSSS2026REG1567	Lunar Sodium abundances at Shiv Shakti point during magnetotail from Chandrayan-3 APXS	Moumita Roy, Swastika Chakraborty	Poster
111	NSSS2026ABS655	NSSS2026REG1797	Ancient, now obliterated impact basins on the Moon: Host to recent volcanic activity	Neeraj Srivastava, Neha Panwar, Tvisha Kapadia, Megha Bhatt, and Anil Bhardwaj	Oral
112	NSSS2026ABS658	NSSS2026REG1592	Hydrated Minerals and Clay Minerals of Meridiani Planum, Mars: An Integrated Geomorphological and Spectral Analysis Using Multi-Resolution Orbital Datasets	Rozi Baishya, Diganta Kumar, K.N. Kusuma	Oral
113	NSSS2026ABS659	NSSS2026REG1801	Spatiotemporal Evolution of Elysium Volcanic Province: A Geochemical and Geophysical Perspective	A. Rani, Heidi F. Haviland, Paul M. Bremner, Han Byul Woo, A. Basu Sarbadhikari, and S. Karunatillake	Poster
114	NSSS2026ABS661	NSSS2026REG1006	Terrestrial Analogue Sites in India and Their Implications for Planetary Exploration	V.J. Rajesh and Preeti Kumari	Oral
115	NSSS2026ABS663	NSSS2026REG0990	Proterozoic Stromatolites as Keys to Early Life Detection Strategies in Astrobiology	Preeti K., Rajesh V. J., and Satish-Kumar M.	Poster
116	NSSS2026ABS665	NSSS2026REG0981	Probing the Nightside Martian Ionosphere during the passage of Stealth CME and CIR Events	Arnob Sarkar; N.V. Rao	Oral

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SN	Abstract ID	Registration ID	Abstract Title	Authors	Type of Presentation
117	NSSS2026ABS668	NSSS2026REG0987	A spatio-temporal hybrid deep learning model for forecasting multiple solar wind parameters at L1 point	Santanu Maity, Saurabh Das	Oral
118	NSSS2026ABS669	NSSS2026REG1736	Retrieval of Atmospheric Optical Depth using shadow method from high-resolution orbiter images (HiRISE)	Farzana Shaheen	Poster
119	NSSS2026ABS670	NSSS2026REG1732	Nickel Abundances Measured by Chandrayaan-3 APXS Reveal Primitive Mantle Signatures at Shiv Shakti Statio	Rishitosh K. Sinha, Dwijesh Ray, Neeraj Srivastava, Anil Bhardwaj, and Chandrayaan-3 Team	Oral
120	NSSS2026ABS672	NSSS2026REG1615	CHANGES IN VERTICAL DISTRIBUTION OF H3O+ DURING A MARTIAN REGIONAL DUST STORM	Dr. Manu Mehta Saanvi kharbanda	Oral
121	NSSS2026ABS675	NSSS2026REG1188	Estimating physical parameters of filaments using Bayesian Inference	Upasna Baweja, Vaibhav Pant, Inigo Arregui, M. Saleem Khan	Oral
122	NSSS2026ABS694	NSSS2026REG0982	Local Time and Altitude Variations of Protonated Ions in the Upper Atmosphere of Mars: Roles of Thermospheric CO2 and Chemical Pathways	Kritika Joshi and N.V. Rao	Oral

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SN	Abstract ID	Registration ID	Abstract Title	Authors	Type of Presentation
123	NSSS2026ABS699	NSSS2026REG1831	Design and Development of Electronics subsystem for PRATHIMA payload for ISRO – JAXA (LUPEX Rover) Chandrayaan -5 Mission	Mohit Kumar Soni, Sushil Kumar, Tinkal Ladiya, K Durga Prasad, M Shanmugam, Manan Shah	Poster
124	NSSS2026ABS704	NSSS2026REG1297	Towards a Solar Imaging X-ray Spectrograph: Science Drivers and Feasibility	Sreejith Padinhatteeri, Subramania Athiray P., Soumya Roy, Sankarasubramanian K., Manju Sudhakar, Harshavardhan Hegde, Adithya H.N., P. Sreekumar	Oral
125	NSSS2026ABS705	NSSS2026REG1816	Simulations to understand spectral emissions from planetary analogue samples analyzed through LIBS technique	Prashant Kumar and Swetapuspa Soumyashree	Oral
126	NSSS2026ABS708	NSSS2026REG0970	Geological Mapping Automation Guided by Multi-mission Datasets	Shubhangi Singh and Deepak Dhingra	Poster
127	NSSS2026ABS710	NSSS2026REG1839	Overview of Chandrayaan-4 Mission and plan for sample utilisation	S. Megala	Poster
128	NSSS2026ABS714	NSSS2026REG1792	White-Light Continuum Across the Balmer Jump: Coordinated SUIT, HELIOS, IRIS, and AIA Observations of the 2024 October 3	Soumya Roy, Durgesh Tripathi , Sreejith P., A. N. Ramaprakash, Janmejy Sarkar, Nived	Poster

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SN	Abstract ID	Registration ID	Abstract Title	Authors	Type of Presentation
			Flare	V N, Rahul G.	
129	NSSS2026ABS717	NSSS2026REG1839	Indian on the Moon by 2040: Science strategy for implementation and sustenance	S. Megala and Tirtha Pratim Das	Oral
130	NSSS2026ABS720	NSSS2026REG1783	Wide-Field Imaging Polarimeter: A Cooled Camera for Solar System Dust Studies	Prashanth K Kasarla, Deekshya R Sarkar, Kishan Solanki, Shashikiran Ganesh, Alkasingh	Poster
131	NSSS2026ABS732	NSSS2026REG1821	Optimization of experimental parameters in Laser Induced Breakdown Spectroscopy of Rock Samples	Swetapuspa Soumyashree	Poster
132	NSSS2026ABS733	NSSS2026REG1782	Venus Solar Soft X-ray Spectrometer (VS3) on-board Venus Orbiter Mission	Nishant Singh, M. Shanmugam, S. V. Vadawale, Arpit Patel, Deepak Kumar Painkra, P Kalyana S Reddy, Tinkal Ladiya, Hitesh Adalja, N. P. S. Mithun, Bhuwan Joshi, Varun Sheel, and Anil Bhardwaj	Poster
133	NSSS2026ABS734	NSSS2026REG1509	SPECTRAL AND MINERALOGICAL INVESTIGATION OF DARK MANTLE DEPOSITS IN CRATER	Arindam Saikia Diganta Kumar	Oral

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SN	Abstract ID	Registration ID	Abstract Title	Authors	Type of Presentation
			ALPHONSUS, MOON		
134	NSSS2026ABS736	NSSS2026REG1774	Probing Coronal Magnetism and Space Weather with the Wide-Band Solar Radio Spectrograph (WBSRS): A Ground-Based Full-Stokes Instrument at USO–PRL	Kushagra Upadhyay, Bhuwan Joshi	Poster
135	NSSS2026ABS738	NSSS2026REG1858	Probing the Venusian ionosphere using a topside radar sounder	N. V. Rao	Poster
136	NSSS2026ABS740	NSSS2026REG1711	Venus Radiation environment monitor on-board Venus Orbiter Mission	Sushil Kumar, M. Shanmugam, D. Chakrabarty, Piyush Sharma, Neeraj K. Tiwari, Abhishek J Verma, Jacob Sebastian, Shiv K. Goyal, Arpit R. Patel, Nishant Singh, et. al.	Poster
137	NSSS2026ABS745	NSSS2026REG1710	Design and Development of electronics for Dust Experiment Onboard POEM-3	Rashmi, Jayesh Pabari, Sonam Jitarwal, Srirag Nambiar	Poster
138	NSSS2026ABS749	NSSS2026REG1860	A high-frequency type II radio burst associated with an intense X2.3 class flare	Divya Paliwal ,Anshu Kumari	Poster
139	NSSS2026ABS751	NSSS2026REG1853	Olivine basalts of Western Oceanus Procellarum	Nabamita Chaudhuri Kusuma K.N.	Poster

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SN	Abstract ID	Registration ID	Abstract Title	Authors	Type of Presentation
140	NSSS2026ABS752	NSSS2026REG0827	Palaeo-volatile Deposits: Implications for In-Situ Resource Utilization and Human Exploration of the Moon	Mishal K T and Deepak Dhingra	Poster
141	NSSS2026ABS753	NSSS2026REG1755	Systematic Mapping and Study of Irregular Mare Patches on The Mare Vaporum and Mare Tranquillitatis on the Nearside of The Moon	Madhura. Muralidharan, Nabamita Chaudhuri, Suyash Sharma and Kusuma K.N	Poster
142	NSSS2026ABS760	NSSS2026REG1269	Relation Between UV Emission and Magnetic Complexity in NOAA 14056	Munjiba M M, Sreejith Padinhatteeri, Adithya H N	Poster
143	NSSS2026ABS762	NSSS2026REG0249	Space Weather during Extremely Disturbed Geomagnetic Conditions and Associated Cosmic Rays Intensity Variation	Subhash Chandra Kaushik	Poster
144	NSSS2026ABS766	NSSS2026REG1864	Impact of Space Weather on High Altitude Plume Cloud forms in Martian Exosphere	Jyotirmoy Kalita Binita Pathak Zishan Anowar Bhagyashree Konch	Oral
145	NSSS2026ABS770	NSSS2026REG1467	Shock-Driven Chemical Processing of Lunar Analogues	Roshan Nath, Shubhadip Chakraborty, Megha Bhatt, V. J. Rajesh, and Shyama Narendranath	Poster

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SN	Abstract ID	Registration ID	Abstract Title	Authors	Type of Presentation
146	NSSS2026ABS775	NSSS2026REG1653	Investigating Rocket Exhaust-Induced Spectral Variations on the Moon: Insights from M3 and IIRS Data	Marylina Das and Anirban Guha	Oral
147	NSSS2026ABS777	NSSS2026REG1076	Characterization of Solar Event–Induced Range Spread in the Martian Ionosphere from MARSIS Gaussian Width Analysis	Yaswanth Ch, N V Rao	Poster
148	NSSS2026ABS785	NSSS2026REG1882	Imaging the Lunar Regolith with Apollo 17 Seismic Profiling Data and Prospects for Chandrayaan-3	Mrinmoy Tamuli, Bivas Das, Rama Subramanian V, Rishav sahoo, Arjun Datta, Vijayan S	Poster
149	NSSS2026ABS787	NSSS2026REG1295	Spatial and temporal variation of wrinkle ridge forming processes in the Mare Tranquillitatis: constraints from comprehensive morphometric and chronometric analysis	Shubham Magar, Subhadip Bhadra	Poster
150	NSSS2026ABS788	NSSS2026REG0127	Analysis of astrophysical shocks using PINNs	Akshita Bhardwaj, Rajan Arora	Oral
151	NSSS2026ABS791	NSSS2026REG0905	A Comparative Study of Venusian Atmospheric Structure using Models and Observations	Jayadev Pradeep, Varun Nikam and S. V. Sunilkumar	Poster
152	NSSS2026ABS802	NSSS2026REG1686	Crater morphometry and scattering behaviour as a tool to understand lunar south polar PSRs	Sachana Sathyan, Megha Bhatt, K. S. Sajinkumar and Neeraj Srivastava	Poster

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SN	Abstract ID	Registration ID	Abstract Title	Authors	Type of Presentation
153	NSSS2026ABS804	NSSS2026REG1727	Discovery of high-pressure phases in shock lithified Lunar meteorite NWA 10989	Garima Arora, Kishan Tiwari, Dwijesh Ray, Mahesh Anand	Poster
154	NSSS2026ABS815	NSSS2026REG1890	Turbulent Properties of ICMEs in the Inner Heliosphere	Jyoti Sheoran, Supratik Banerjee, Vaibhav Pant, Dipankar Banerjee, and M. Saleem Khan	Oral
155	NSSS2026ABS829	NSSS2026REG1415	Fossilized Lunar Swirls: An Intriguing New Possibility and Its Implications	Deepak Dhingra	Oral
156	NSSS2026ABS832	NSSS2026REG0456	Detection of Halo CME Events Using Particle Observations from the SWIS–ASPEX Payload on Aditya-L1	Kavya Bonyal, Harshaditya Gaur, Vinay Kumar	Oral
157	NSSS2026ABS834	NSSS2026REG1963	First Ever Circular Polarization Ratio (CPR) and Radar Scattering Maps of Lunar Poles in L-band using Full-Polarimetric DFSAR data from Chandrayaan-2	Tathagata Chakraborty, Tarun Maganti, S Gupta, Ajay Kumar Prashar, Sriram S. Bhiravarasu and Deepak Putrevu	Oral
158	NSSS2026ABS839	NSSS2026REG1918	ASPEX-STEPS Data Pipeline: From Raw Measurements to Science-Ready Products	Jacob Sebastian, Bijoy Dalal, Aakash Gupta, Shiv Kumar Goyal, Dibyendu Chakrabarty, Santosh V. Vadawale, M. Shanmugam, Neeraj Kumar Tiwari, et. al.	Poster

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SN	Abstract ID	Registration ID	Abstract Title	Authors	Type of Presentation
159	NSSS2026ABS842	NSSS2026REG1722	Global-Scale Mapping of Lunar Sodium Using Integrated X-Ray and Near-Infrared Spectroscopy	Megha Bhatt, Shyama Narendranath, Christian Woehler, Netra Pillai, Dibyendu Misra, Suchit Purohit, Neeraj Srivastava, and Anil Bhardwaj	Oral
160	NSSS2026ABS848	NSSS2026REG1098	Assessing the Vulnerability of Lunar Polar Ice to Human-Induced Thermal Perturbations	Preksha Choudhury and Devansh Bhatia	Poster
161	NSSS2026ABS852	NSSS2026REG1007	Compositional Stratigraphy of Mare Basalt	Somnath Adak and Deepak Dhingra	Poster
162	NSSS2026ABS861	NSSS2026REG1986	Space Weather Effects on Venus Ionosphere – The Indian Venus Mission	Varun Sheel	Oral

- All lead authors have been communicated about the decision as per the table above. In case the acceptance letter is not received, please inform us.
- The authors of the abstracts that were rejected, has already been communicated about the decision.
- The poster presentations that will be given the opportunity for Lightning Oral Talk shall be communicated separately.
- **Discrepancies, if any may be brought to our notice for correction.**