Scientific Programme

Sun, Space Weather and Solar-Stellar Connections

An international conference commemorating 125 years of Kodaikanal Solar Observatory

Organised by the Indian Institute of Astrophysics, Bengaluru



January 20 - 24, 2025

Venue: Auditorium, St. John's Research Institute, Bengaluru-34





08:30 - 09:30 **Inaugural Session** 09:30 - 10:45 Long Term Synoptic Observations 09:30 - 09:55 Exploring Solar Magnetism over Long Time Scales with Regular Full-disc Observations, Ilaria Ermolli 09:55 - 10:10 Revisiting Sunspot Groups Tilt Angle Study from Kodaikanal Data, Manjunath Hegde 10:10 - 10:30 Unveiling the Significance of Ca II K Observations for Long-Term Solar Irradiance Reconstructions, Theodosios Chatzistergos 10:30 - 10:45 Characteristics of Supergranulation Network from Kodaikanal Archival Data, K. P. Raju 10:45 - 11:15 **Posters/Coffee Break** 11:15 - 12:30 **Solar Interior Dynamics** 11:15 - 11:40 TBD, Laurent Gizon A Unified Family of Mixed Inertial Modes in the Sun, Rekha Jain 11:40 - 11:55 11:55 - 12:15 Inertial Waves in the Solar Convection Zone, Catherine Blume Study of Bipolar Magnetic Regions using AutoTAB: Support of Thin Flux Tube Model?, Anu Sreedevi 12:15 - 12:30 12:30 - 14:00 Lunch 14:00 - 15:30 **Dynamo Models and Observations** 14:00 - 14:25 Nonlinearities, Stochasticity, and Long-term Modulations in Solar and Stellar Dynamos Paul Charbonneau 14:25 - 14:40 Deep Cyclic Activity and Radial Flux Transport in the Sun by Assimilating Observed Magnetogram in a 3D Dynamo Model, Soumyadeep Chatteriee 14:40 - 14:55 Surmounting the Solar Grand Minima: A Quantification of the Polar Flux Threshold, Chitradeep Saha 14:55 - 15:15 Observational Constraints for Dynamo Modeling & Active Region Flux Emergence Patterns, Aimee Norton 15:15 - 15:30 Statistical Properties of Solar Active Region Potential Magnetic Fields, Stephane Regnier 15:30 - 16:15 **Posters/Coffee Break** 16:15 - 17:35 **Solar Cycle Variations in the Interior** 16:15 - 16:40 Solar Cycle Variations in the Solar Interior, H. M. Antia 16:40 - 16:55 Geostrophic Nature of Flows Around Active Regions and Changes in the Near-surface Shear Layer of the Sun, S.P. Rajaguru 16:55 - 17:15 Reconciling Helioseismic Measurements of Solar Deep Meridional Flow from SDO/HMI and GONG Observations. Ruizhu Chen MHD Global Nonlinear MHD of Solar Tachocline and Implications for Surface Magnetism, 17:15 - 17:35 Mausumi Dikpati

Day 1: Monday, January 20, 2025

Theme: Solar Magnetism over Long Timescales

Day 2: Tuesday, January 21, 2025

Theme: Solar Magnetism in High Resolution

08:30 - 10:15 High Resolution Observations of Solar Magnetic Fields, Jaime de la Cruz Rodriguez 08:55 - 00:10 Magnetic Field and Plasma Diagnostics Using Infrared Spectral Lines: Forward Modeling, Weinhang Zhang 09:10 - 00:25 Unraveling the Stratification of the Chromospheric Magnetic Field Using the Ha Line, Harsh Mathur 09:25 - 00:45 Solar Magnetic Fields Before and During Eruptions, Maria Kazachenko 09:45 - 10:00 High-resolution Measurements of Coronal Magnetic Field In Solar Flares and Associated Phenomena, Cregory Fielshman 10:00 - 10:15 Unveiling the Dynamics and Genesis of Small-scale Fine Structure Loops in the Lower Solar Atmosphere, Anna Bura 10:45 - 11:10 Solar Chromospheric Dynamics. 10:45 - 11:12 Cuid-Sun Ellerman Bombs and Their Impact on the Upper Solar Atmosphere, Jayant Joshi 11:10 - 11:25 Quid-Sun Ellerman Bombs and Their Impact on the Upper Solar Atmosphere, Jayant Joshi 11:10 - 11:25 Quid-Sun Ellerman Bombs and Their Impact on the Upper Solar Atmosphere, Jayant Joshi 11:12 - 11:40 Simulations of the Solar Solicule Forest - Dependence on Magnetic Field Strength and Coronal 11:10 - 11:25 Vortex Dynamics in Various Solar Magnetic Field Configurations, Nitin Yadav 12:15 - 12:30 Konsepheric Atmosphere: Resonator through Multi-Height Unwencial Simulations, Solar Atmosphere: Resonator through Multi-Height Observations, Atmistos Solar A	,	
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17:30 - 17:45 National Large Solar Telescope (NLST) of India, B. Ravindra	17:00 - 17:15	Performance of the Upgraded GRIS@GREGOR Spectrograph, Manuel Collados

Theme: Energetic Phenomena

Day 3: Wednesday, January 22, 2025

8:30 - 10:15	Jets and Magnetic Reconnection
08:30 - 08:55	Spicules and Jets in the solar Chromosphere: A Perspective of Recent Advances, Tiago Pereira
08:55 - 09:10	The Magnetic Origin of Solar Coronal Jets and Campfires: SDO and Solar Orbiter Observations, Navdeep Panesar
09:10 - 09:25	Transition Region Brightening in a Moss Region and their Relation with Lower Atmospheric Dynamics, Tanmoy Samanta
09:25 - 09:45	Small-scale Magnetic Flux Emergence Preceding a Chain of Energetic Solar Atmospheric Events, Daniel Nóbrega-Siverio
09:45 - 10:00	Campfires and Nanoflares: Signatures of finest-scale magnetic reconnection in quiet-Sun corona observed by Extreme Ultraviolet Imager aboard Solar Orbiter, Nancy Narang
10:00 - 10:15	Localized Heating and Dynamics in Coronal and Chromospheric Plasmas due to a Symbiosis of WAves and Reconnection (SWAR), Abhishek Kumar Srivastava
10:15 - 10:45	Posters/Coffee Break
10:45 - 12:15	Flares and CMEs
10:45 - 11:10	Origin and Energization of Solar Eruption Events, Xin Cheng
11:10 - 11:25	Low Coronal Disturbances and Coronal Mass Ejections, Nariaki Nitta
11:25 - 11:45	Solar Jets: Insights from High-Resolution Observations and Numerical Simulations, Reetika Joshi
11:45 - 12:00	Onset, Eruption, and Thermal Properties of Coronal Jets via MHD Simulation, Sushree Sangeeta Nayak
12:00 - 12:15	Small and Large Scale Episodic Events in Smaller and Larger Scale Numerical Simulations Spanning
12.00 12.10	the Convection Zone to the Corona, Viggo Hansteen
12:15 - 13:45	
	the Convection Zone to the Corona, Viggo Hansteen
12:15 - 13:45	the Convection Zone to the Corona, Viggo Hansteen Lunch
12:15 - 13:45 13:45 -15:00	the Convection Zone to the Corona, Viggo Hansteen Lunch Shocks and Particle Acceleration and Transport in IP Medium Energetic Particle Acceleration and Transport: Interplanetary Coronal Mass Ejections and Shocks,
12:15 - 13:45 13:45 - 15:00 13:45 - 14:10	the Convection Zone to the Corona, Viggo Hansteen Lunch Shocks and Particle Acceleration and Transport in IP Medium Energetic Particle Acceleration and Transport: Interplanetary Coronal Mass Ejections and Shocks, Olga Malandraki Connecting Energetic Electrons at the Sun and in the Heliosphere through X-ray and Radio
12:15 - 13:45 13:45 - 15:00 13:45 - 14:10 14:10 - 14:25	the Convection Zone to the Corona, Viggo Hansteen Lunch Shocks and Particle Acceleration and Transport in IP Medium Energetic Particle Acceleration and Transport: Interplanetary Coronal Mass Ejections and Shocks, Olga Malandraki Connecting Energetic Electrons at the Sun and in the Heliosphere through X-ray and Radio Diagnostics, Nicole Vilmer Suprathermal Ion Observations Associated with the Heliospheric Current Sheet Crossings by Parker
12:15 - 13:45 13:45 - 15:00 13:45 - 14:10 14:10 - 14:25 14:25 - 14:45	the Convection Zone to the Corona, Viggo Hansteen Lunch Shocks and Particle Acceleration and Transport in IP Medium Energetic Particle Acceleration and Transport: Interplanetary Coronal Mass Ejections and Shocks, Olga Malandraki Connecting Energetic Electrons at the Sun and in the Heliosphere through X-ray and Radio Diagnostics, Nicole Vilmer Suprathermal Ion Observations Associated with the Heliospheric Current Sheet Crossings by Parker Solar Probe, Mihir Desai
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12:15 - 13:45 13:45 - 15:00 13:45 - 14:10 14:10 - 14:25 14:25 - 14:45 14:45 - 15:00 15:00 - 15:30	the Convection Zone to the Corona, Viggo Hansteen Lunch Shocks and Particle Acceleration and Transport in IP Medium Energetic Particle Acceleration and Transport: Interplanetary Coronal Mass Ejections and Shocks, Olga Malandraki Connecting Energetic Electrons at the Sun and in the Heliosphere through X-ray and Radio Diagnostics, Nicole Vilmer Solar Probe, Mihir Desai Time Evolution of Thermal and Non-thermal Energies in Solar Flares, Soumya Roy Posters/Coffee Break
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12:15 - 13:45 13:45 - 15:00 13:45 - 14:10 14:10 - 14:25 14:25 - 14:45 14:45 - 15:00 15:00 - 15:30 15:30 - 16:35 15:30 - 15:50	the Convection Zone to the Corona, Viggo Hansteen Lunch Shocks and Particle Acceleration and Transport in IP Medium Energetic Particle Acceleration and Transport: Interplanetary Coronal Mass Ejections and Shocks, Olga Malandraki Connecting Energetic Electrons at the Sun and in the Heliosphere through X-ray and Radio Diagnostics, Nicole Vilmer Solar Probe, Mihir Desai Time Evolution of Thermal and Non-thermal Energies in Solar Flares, Soumya Roy Posters/Coffee Break Instruments/Facilities and Science: New and Upcoming TBD Solar Orbiter/EUI Observations and a Bifrost MHD Simulation of Fine-scale Dot-like Heating Events in
12:15 - 13:45 13:45 - 15:00 13:45 - 14:10 14:10 - 14:25 14:25 - 14:45 14:45 - 15:00 15:00 - 15:30 15:30 - 16:35 15:50 - 16:05	the Convection Zone to the Corona, Viggo Hansteen Lunch Shocks and Particle Acceleration and Transport in IP Medium Energetic Particle Acceleration and Transport: Interplanetary Coronal Mass Ejections and Shocks, Olga Malandraki Connecting Energetic Electrons at the Sun and in the Heliosphere through X-ray and Radio Diagnostics, Nicole Vilmer Suprathermal Ion Observations Associated with the Heliospheric Current Sheet Crossings by Parker Solar Probe, Mihir Desai Time Evolution of Thermal and Non-thermal Energies in Solar Flares, Soumya Roy Posters/Coffee Break Instruments/Facilities and Science: New and Upcoming TBD Solar Orbiter/EUI Observations and a Bifrost MHD Simulation of Fine-scale Dot-like Heating Events in Emerging Flux Regions, Sanjiv Tiwari
12:15 - 13:45 13:45 - 15:00 13:45 - 14:10 14:10 - 14:25 14:25 - 14:45 14:25 - 14:45 14:45 - 15:00 15:00 - 15:30 15:30 - 16:35 15:30 - 16:05 16:05 - 16:20	the Convection Zone to the Corona, Viggo Hansteen Lunch Shocks and Particle Acceleration and Transport in IP Medium Energetic Particle Acceleration and Transport: Interplanetary Coronal Mass Ejections and Shocks, Olga Malandraki Connecting Energetic Electrons at the Sun and in the Heliosphere through X-ray and Radio Diagnostics, Nicole Vilmer Suprathermal Ion Observations Associated with the Heliospheric Current Sheet Crossings by Parker Solar Probe, Mihir Desai Time Evolution of Thermal and Non-thermal Energies in Solar Flares, Soumya Roy Posters/Coffee Break Instruments/Facilities and Science: New and Upcoming TBD Solar Orbiter/EUI Observations and a Bifrost MHD Simulation of Fine-scale Dot-like Heating Events in Emerging Flux Regions, Sanjiv Tiwari The Gauribidanur Radio Observatory: Current Status and Future Plans, C. Kathiravan Investigations on suprathermal ions observed by ASPEX/STEPS on board Aditya-L1 during its earth-
12:15 - 13:45 13:45 - 15:00 13:45 - 14:10 14:10 - 14:25 14:25 - 14:45 14:25 - 14:45 14:45 - 15:00 15:00 - 15:30 15:30 - 16:35 15:50 - 16:20 16:05 - 16:20	the Convection Zone to the Corona, Viggo Hansteen Lunch Shocks and Particle Acceleration and Transport in IP Medium Energetic Particle Acceleration and Transport: Interplanetary Coronal Mass Ejections and Shocks, Olga Malandraki Connecting Energetic Electrons at the Sun and in the Heliosphere through X-ray and Radio Diagnostics, Nicole Vilmer Suprathermal Ion Observations Associated with the Heliospheric Current Sheet Crossings by Parker Solar Probe, Mihir Desai Time Evolution of Thermal and Non-thermal Energies in Solar Flares, Soumya Roy Posters/Coffee Break Instruments/Facilities and Science: New and Upcoming TBD Solar Orbiter/EUI Observations and a Bifrost MHD Simulation of Fine-scale Dot-like Heating Events in Emerging Flux Regions, Sanjiv Tiwari The Gauribidanur Radio Observatory: Current Status and Future Plans, C. Kathiravan Investigations on suprathermal ions observed by ASPEX/STEPS on board Aditya-L1 during its earth- bound orbits, Bijoy Dalal

19:30 Director's Dinner, IIA Campus.

Theme: Solar - Stellar Connections

Day 4: Thursday, January 23, 2025 Venue: IIA Auditorium

9:00 - 10:15	The Sun as a Prototype of Stellar Variability
09:00 - 09:25	The Sun as a Prototype of Stellar Variability, Sami K Solanki
	The Role of Meridional Flow in the Generation of Solar/Stellar Magnetic Fields and Cycles, Vindhya Vashisht
	In situ Observation of Mass Ejections Caused by Magnetic Reconnections in the Ionosphere of Mars, Yudong Ye
	Dynamics of Photospheric Magnetic Flux Distribution and Variations in Solar RVs: A Study Using HARPS-N Solar and SDO Observations, Anisha Sen
10:15 - 11:15	Coffee Break
11:15 - 12:15	Asteroseismology
11:15 - 11:40	Solar-like Stars: Seismology and Stellar Magnetic Activity, Savita Mathur
11:40 - 11:55	Latitudinal Differential Rotation in Red Giants, Meenakshi Gaira
11:55 - 12:15	Anomalous Rotators and New Evolutionary Pathways in Red Giants, Shravan Hanasoge
12:15 - 13:45	Lunch
13:45 - 15:00	Solar/Stellar Dynamo and Activity
13:45 - 14:10	Progress in Modelling Solar and Stellar Activity Cycles, Alfio Bonanno
	Dynamo Modelling for Cycle Variability and Occurrence of Grand Minima in Sun-like Stars at Different Rotation Rates, Bidya Binay Karak
14:25 - 14:45	The Sun as a Proxy for Stellar Variability, Nina-Elizabeth Nemec
14:45 - 15:00	3D Radiative MHD Models of Cool Main-sequence Starspots, Tanayveer Singh Bhatia
15:00 - 16:00	Coffee Break
16:00 - 17:00	Stellar Activity as a Limiting Factor for Charactersing Exoplanets
	Stellar Activity as a Limiting Factor for the Discovery and Characterisation of Exoplanets, Ignasi Ribas (IEEC, ICE, CSIC, Spain)
	Magnetospheric Dynamics and Atmospheric Mass Loss driven by Solar-Stellar Winds and Storms,
	Sakshi Gupta

19:00 **Conference Dinner**

08:30 - 10:15	Solar Active Regions and Eruptions
08:30 - 08:55	Eruptive and Non-Eruptive Solar Active Regions: What Sets them Apart?, Manolis Georgoulis
08:55 - 09:10	Coronal Structure and Rotation Enforced by Nested Active Region Emergence: Near-Continuous Monitoring of an Active Nest with Solar Orbiter, Adam Finley
09:10 - 09:25	Global Coronal Magnetic Field Modelling to Study Solar Eruptive Events, Prantika Bhowmick
09:25 - 09:45	What Could Bridge the Gap Between Medium and Shorter-Term Solar Flare Prediction Methods?, Mariana Korsos
09:45 - 10:00	Reconstruction of Interplanetary Magnetic Field: A Novel Approach to Constrain the Solar Source Surface and Its Response to Solar Activity, Shaonwita Pal
10:00 - 10:15	Multiwavelength Study of Pre-flare Signatures using Aditya-L1, Adithya H N
10:15 - 11:00	Posters/Coffee Break
11:00 -12:30	Extreme Events
11:00 - 11:25	Connecting Sun to heliosphere over time and space: Extreme events, Nat Gopalswamy
11:25 - 11:40	A Study Of The May 10-11 Superstorm: Solar Sources And Technological Impacts, Yoshita Barua
11:40 - 12:00	Star-Planet Interactions: From Solar System Planets to Exoplanets, Dibyendu Nandi
12:00 - 12:15	Constraining CME Magnetic Flux in EUHFORIA Using Helicity Content: Case Study of the 10 March 2022 CME Observed by Solar Orbiter, Shifana Koya
12:15 - 12:30	Interplanetary Shocks at 1 AU: Automated Detection and Characterization Over Solar Cycles (1996–2023), Wageesh Mishra
12:30 - 14:00	Lunch
12:30 - 14:00 14:00 - 15:30	Lunch Radio Input to Heliospheric Studies and Space Weather
14:00 - 15:30	Radio Input to Heliospheric Studies and Space Weather Solar and Heliospheric Science from the New Generation Radio Telescopes: Status and
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14:00 - 15:30 14:00 - 14:25 14:25 - 14:40 14:40 - 15:00 15:00 - 15:15 15:15 - 15:30 15:30 - 16:15 16:15 - 17:45 16:15 - 16:40	Radio Input to Heliospheric Studies and Space Weather Solar and Heliospheric Science from the New Generation Radio Telescopes: Status and Opportunities, Divya Oberoi Bringing Together World's Best Radio Telescopes for Remote Sensing of Heliospheric Magnetic Field, Devojyoti Kanasbanik Radio eyes for the Sun, Heliosphere and Ionosphere: Status and plans for the LOFAR2.0 era., Pietro Zucca The First Detailed Polarimetric Study of a Type-II Solar Radio Burst with the MWA, Puja Majee Type II Radio Burst Without Coronal Mass Ejection, Anshu Kumari Posters/Coffee Break Representative Results from New Heliospheric Missions Investigating the Possible Origin of Magnetic Switchbacks in the Low Solar Atmosphere, Clara Froment Multi-spacecraft Exploration of the Formation Stages of a Coronal Mass Ejection During a Composite
14:00 - 15:30 14:00 - 14:25 14:25 - 14:40 14:40 - 15:00 15:00 - 15:15 15:15 - 15:30 15:30 - 16:15 16:15 - 17:45 16:40 - 16:55	Radio Input to Heliospheric Studies and Space Weather Solar and Heliospheric Science from the New Generation Radio Telescopes: Status and Opportunities, Divya Oberoi Bringing Together World's Best Radio Telescopes for Remote Sensing of Heliospheric Magnetic Field, Devojyoti Kanasbanik Radio eyes for the Sun, Heliosphere and Ionosphere: Status and plans for the LOFAR2.0 era., Pietro Zucca The First Detailed Polarimetric Study of a Type-II Solar Radio Burst with the MWA, Puja Majee Type II Radio Burst Without Coronal Mass Ejection, Anshu Kumari Posters/Coffee Break Representative Results from New Heliospheric Missions Investigating the Possible Origin of Magnetic Switchbacks in the Low Solar Atmosphere, Clara Froment Multi-spacecraft Exploration of the Formation Stages of a Coronal Mass Ejection During a Composite Flare: heating, Particle Acceleration, and Hot-channel Eruption, Bhuwan Joshi

Day 5: Friday, January 24, 2025 Theme: Sun to Heliosphere over Time and Space, and Space Weather