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





Theme: Solar Magnetism over Long Timescales

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 Helioseismology and Simulation Results, 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 - 15:45 **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 Review of Helioseismology Results, 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

Day 2: Tuesday, January 21, 2025

Theme: Solar Magnetism in High Resolution

08:30 - 10:15	High Resolution Observations of Solar Magnetic Fields
08:30 - 08:55	A High Resolution View of Solar Magnetic Fields, Jaime de la Cruz Rodriguez
08:55 - 09:10	Magnetic Field and Plasma Diagnostics Using Infrared Spectral Lines: Forward Modeling, Weihang Zhang
09:10 - 09:25	Unravelling the Stratification of the Chromospheric Magnetic Field Using the H α Line, Harsh Mathur
09:25 - 09:45	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, Gregory Fleishman
10:00 - 10:15	Unveiling the Dynamics and Genesis of Small-scale Fine Structure Loops in the Lower Solar Atmosphere, Annu Bura
10:15 - 10:45	Posters/Coffee Break
10:45 - 12:15	Solar Chromospheric Dynamics
10:45 - 11:10	Solar Chromospheric Dynamics, Bart De Pontieu
11:10 - 11:25	Quiet-Sun Ellerman Bombs and Their Impact on the Upper Solar Atmosphere, Jayant Joshi
11:25 - 11:40	Simulations of the Solar Spicule Forest - Dependence on Magnetic Field Strength and Coronal Temperature, Piyali Chatterjee
11:40 - 12:00	Small-scale Swirls in the Solar Atmosphere, Jiajia Liu
12:00 - 12:15	Vortex Dynamics in Various Solar Magnetic Field Configurations, Nitin Yadav
12:15 - 12:30	Chromospheric and Coronal Heating in Active Regions: A Joint Perspective from Observations and
	Numerical Simulations, Souvik Bose
12:30 - 13:45	Numerical Simulations, Souvik Bose Lunch
12:30 - 13:45 13:45 - 15:25	Numerical Simulations, Souvik Bose Lunch Waves in the Solar Atmosphere
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Theme: Energetic Phenomena

Day 3: Wednesday, January 22, 2025

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19:30 Director's Dinner, IIA Campus.

Theme: Solar - Stellar Connections

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

9:00 - 10:35	The Sun as a Prototype of Stellar Variability
09:00 - 09:25	The Sun as a Prototype of Stellar Variability, Sami K Solanki
09:25 - 09:40	The Role of Meridional Flow in the Generation of Solar/Stellar Magnetic Fields and Cycles, Vindhya Vashisht
09:40 - 10:00	In situ Observation of Mass Ejections Caused by Magnetic Reconnections in the lonosphere of Mars, Yudong Ye
10:00 - 10:15	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 - 15:30	Solar/Stellar Dynamo and Activity
13:45 - 14:10	Progress in Modelling Solar and Stellar Activity Cycles, Alfio Bonanno
14:10 - 14:25	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 - 17:15	Stellar Activity as a Limiting Factor for Charactersing Exoplanets
16:00 - 16:25	Stellar Activity as a Limiting Factor for the Discovery and Characterisation of Exoplanets, Ignasi Ribas (IEEC, ICE, CSIC, Spain)
16:25 - 16:40	Magnetospheric Dynamics and Atmospheric Mass Loss driven by Solar-Stellar Winds and Storms, Sakshi Gupta
16:40 - 17:00	Magnetic Interaction of Stellar Coronal Mass Ejections with Close-in Exoplanets, Gopal Hazra

19:00 **Conference Dinner**

08:30 - 10:20	Solar Active Regions and Fruntions
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 -12:15	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 - 15:45	Lunch Radio Input to Heliospheric Studies and Space Weather
12:30 - 14:00 14:00 - 15:45 14:00 - 14:25	Lunch Radio Input to Heliospheric Studies and Space Weather Solar and Heliospheric Science from the New Generation Radio Telescopes: Status and Opportunities, Divya Oberoi
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Day 5: Friday, January 24, 2025 Theme: Sun to Heliosphere over Time and Space, and Space Weather

16:15 - 17:40	Representative Results from New Heliospheric Missions
17:45 - 18:00	Closing Session - KSO specific screening/release of documents