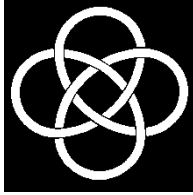


IUCAA



Conference on Coupling and Dynamics of the Solar Atmosphere

November 10-14, 2014

- Venues -

Conference @ Chandrasekhar Auditorium

Posters @ Chandrasekhar Auditorium

Tea/Coffee during the Conference @ Chandrasekhar Auditorium

Breakfast, Lunch & Dinner @ Chittaranjan Lawns, Akashganga Housing Colony

Conference Dinner @ 1, Akashganga (Director's residence), IUCAA Housing Colony



Sunday 9th November

Registration 18:00 – 20:00 @ Main Reception Area, Devayani

Dinner : 19:00 - 21:00

Monday 10/11/2014

Time	Lecture	SPEAKER
09:00-09:30	Registration and Inauguration	Remarks by the Director
09:30-10:30	Major Challenges in Solar Physics	Sami Solanki

10:30-11:00 – Break Tea/Coffee

11:00-12:31 – Generation of Magnetic field

Chair: A R Choudhuri

11:00-11:30 Keynote Lecture (25 + 5)	Dynamo Models: where do we stand?	Kandaswamy Subramanian
11:30-11:55 Invited Lecture (20+5)	Solar Cycle Forecasting: The Underlying Physics	Dibyendu Nandi
11:55-12:13 (15+3)	MHD simulations of stellar differential rotation and meridional circulation	Bidya Binay Karak
12:13-12:31 (15+3)	Is a Deep One-cell Meridional Circulation Essential for the Flux Transport Solar Dynamo?	Gopal Hazra

12:31-14:00 – Lunch Break

14:00-15:31 – Sub-Surface Structure of Flows

Chair: Ashok Ambastha

14:00-14:30 Keynote lecture (25 + 5)	Large Scale Flows	Laurent Gizon
14:30-14:55 Invited Lecture (20+5)	Solar Convection	Shravan Hanasoge
14:55-15:13 (15+3)	Photospheric and Sub-photospheric Large Scale Flows in Active Regions	Kiran Jain
15:13-15:31 (15+3)	Dynamics of small-scale granular cells	Birgit Lemmerer

15:31-16:00 – Tea/Coffee (Posters)

16:00-17:31 – Magneto Convection and Transport

Chair: S M Chitre

16:00-16:30 Keynote Lecture (25+5)	Magneto-Convection, the Global and the Local Dynamo	Matthias Rempel
16:30-16:55 Invited lecture (20+5)	Transport of Magnetic Fields from the Convection Zone to the Corona	Fernando Moreno-Inertis

**16:55-17:13
(15+3)**

**Formation of intense
bipolar regions in
spherical dynamo**

Sarah Jabbari

**17:13-17:31
(15+3)**

**The importance of a
coronal envelope for
modeling the global
turbulent dynamo of the
Sun.**

Joern Warnecke

17:31-18:30 – Break Tea/Coffee – Poster Viewing

Onsite Dinner 19:00 – 21:00

Tuesday 11/11/2014

09:00-10:38 – Photospheric Magnetic Field

Chair: P. Janardhan

09:00-09:30 Keynote Lecture (25+5)	Photospheric Magnetic Field: what are the remaining open questions?	Robert Cameron
09:30-09:55 Invited Lecture (20+5)	Sunspots	Juan-Manuel Borrero
09:55-10:20 Invited Lecture (20+5)	Quiet Sun Magnetic Fields	Sanja Danilovic
10:20-10:38 (15+3)	Statistical evolution of quiet-Sun small scale magnetic features using Sunrise observations	Anusha Bhasari

**10:40 – 11:15 – Break Tea/Coffee - Poster Viewing
Conference Photograph at 11:00**

11:15 – 12:53 – Chromospheric Magnetic Field

Chair: Robert Rutten

11:15-11:45 Keynote Lecture (25+5)	Chromospheric Field Deduced from MHD Simulations	Mats Carlsson
11:45-12:10 Invited Lecture (20+5)	The Chromospheric Field Probed by the He I 10830 Line	Andreas Lagg
12:10-12:28	Formation of Delta Type	Sreejith

(15+3)

Sunspots and its effects
on the solar atmosphere

Padinhatteeri

12:30 – 14:30 – Lunch Break

14:30 – 16:13– Coronal Magnetic Field

Chair: S. Ananthkrishnan

14:30-15:00
Keynote lecture
(25+5)

Coronal Magnetic Field
from Radio Observations
and First Results from
MWA

Divya Oberoi

15:00-15:30
Keynote Lecture
(25+5)

Data-Driven Modeling of
Magnetic Field Evolution
in the Solar Corona

Mark Cheung

15:30-15:55
Invited lecture
(20+5)

Recent Progress in
Modelling the Local and
Global Structure of
Coronal Magnetic Field

Julia Thalmann

15:55-16:13
(15+3)

Nonlinear Force-free
Modeling of the Solar
Magnetic Carpet –
Results and Remarks

Lakshmi Pradeep
Chitta

16:15 - 18:15 - Poster Session

18:30 — 19:30 — Public Lecture Organized by IUCAA SciPOP

Title: Exploring Our Fiery Star - The Sun

Speaker: Professor Sami Solanki

Venue: Chandrasekhar Auditorium, IUCAA

Onsite Dinner 19:30 - 21:00

Wednesday 12/11/2014

09:00 – 10:31 – Coupling of the Solar Atmosphere I

Chair: Bhola Dwivedi

09:00-09:30 Keynote Lecture (25+5)	Structures and Evolution of Features in Chromosphere, Transition Region and Corona	Hardi Peter
09:30-09:55 Invited Lecture (20+5)	Connections Between Chromosphere, Transition Region and Corona: IRIS perspective	Hui Tian
09:55-10:13 (15+3)	Ellerman Bombs	Rob Rutten
10:13-10:31 (15+3)	Multi-wavelength study of Recurrent Solar Jets on 11 December, 2010	Ramesh Chandra

10:31 – 11:00 – Break Tea/Coffee - Poster Viewing

11:00 – 12:31 – Coupling of Solar Atmosphere II

Chair: Ram Pal Sharma

11:00-11:30 Keynote Lecture (25+5)	Waves in the Solar Atmosphere	Tom Van Doorselaere
11:30-11:55 Invited Lecture (20+5)	Waves in Coronal Holes	Dipankar Banerjee

11:55-12:13
(15+3)

Are some coronal loop
oscillations interference
fringes?

Rekha Jain

12:13-12:31
(15+3)

Doppler velocities in kink
MHD waves in solar flux
tubes

Marcel Goossens

12:31 - 14:00 - Lunch Break

Free Afternoon

Onsite Dinner 19:00 - 21:00

Thursday 13/11/2014

09:00- 10:31 Magnetic Structures in the Solar Atmosphere I

Chair: Marcel Goossens

09:00-09:30 Keynote Lecture (25+5)	Formation and Dynamics of Solar Prominences	Judy Karpen
09:30-09:55 Invited Lecture (20+5)	Waves and Oscillations in Prominences	Takenori Okamoto
09:55-10:13 (15+3)	Spectroscopic Signature and Modelling of Plasma Flows, Jets, and MHD Waves in the Solar Corona	Abhishek Kumar Srivastava/ Bhola Dwivedi
10:13-10:31 (15+3)	Three-dimensional simulation of the plasmoid instability and comparison with micro- jets observed by	Lijia Guo

10:31 – 11:00 – Break Tea/Coffee

11:00 – 12:24 – Magnetic Structures in Solar Atmosphere II

Chair: Rekha Jain

11:00-11:30 Keynote Lecture (25+5)	Prominence Cavities	Sarah Gibson
11:30-11:48 (15+3)	Stable Compound flux rope formation via merging of filament channel	Navin Chandra Joshi

11:48-12:06
(15+3)

Formation of magnetic
discontinuities through
contortion of magnetic
flux surfaces

Sanjay Kumar

12:06-12:24
(15+3)

Flow Structure of
transition region
explosive events

Davina Innes

12:30 - 14:00 - Lunch Break

14:00 - 15:30 - Chromospheric and Coronal Heating I

Chair: Siraj Hasan

14:00-14:30
Keynote lecture
(25+5)

Chromospheric Heating

Viggo Hansteen

14:30-14:55
Invited Lecture
(20+5)

Magnetic Reconnection
in Partially Ionized
Plasmas and its effect in
Heating of the
Atmosphere

Hiroaki Isobe

14:55-15:13
(15+3)

Hydraulic effects in a
partially ionized
radiative atmosphere

Pallavi Bhat

15:13-15:31
(15+3)

Calculation of the
excitation and ionization
state of the plasma for
the electron kappa
distribution

Elena Dzifcakova

15:31 – 16:00 – Tea/Coffee (Posters)

16:00 – 17:31 – Chromospheric and Coronal Heating II

Chair: Boris Gudiksen

16:00-16:30 Keynote Lecture (25+5)	Coronal Heating	James A. Klimchuk
16:30-16:55 Invited lecture (20+5)	Heating and Dynamics of Solar Active Regions (observations)	Helen Mason
16:55-17:13 (15+3)	Explanation of Coronal bright point oscillation using a nanoflare heating model	Aveek Sarkar
17:13-17:31 (15+3)	Asymmetries of coronal spectral lines and their emission measure	Durgesh Tripathi

17:31 – 18:30 – Break Tea/Coffee – Poster Viewing

CONFERENCE DINNER— 19:30 – 22:30

Friday 14/11/2014

09:00 – 10:31 – MHD Instabilities and Eruptions I

Chair: P. Venkatakrisnan

09:00-09:30 Keynote Lecture (25+5)	Solar Flares: Hinode Perspective	Hirohisa Hara
09:30-09:55 Invited Lecture (20+5)	Slipping Magnetic Reconnection in Solar Flares	Miho Janvier
09:55-10:13 (15+3)	MHD Simulations of quasi- periodic pulsations from post flare loop top	Shinsuke Takasao
10:13-10:31 (15+3)	Forward Modelling the loop top emission in Post Flare Loops	Rohit Sharma

10:31 – 11:00 – Break Tea/Coffee

11:00 – 12:31 – MHD Instabilities and Eruptions II

Chair: P K Manoharan

11:00-11:30 Keynote Lecture (25+5)	Coronal Mass Ejections: how well do we understand their propagation dynamics?	Prasad Subramanian
11:30-11:55 Invited Lecture (20+5)	EIT Waves	Peng-Fei Chen
11:55-12:13 (15+3)	Evolution and Consequences of	Wageesh Mishra

Interacting CMEs using
STEREO/SECCHI and In
Situ Observations

12:13-12:31
(15+3)

The trigger of a
spectacular filament
eruption leading to CME
and flare

Ashok Ambastha

12:31 - 14:00 - Lunch Break

**14:00 - 15:15 - Current and Upcoming Observational Facilities in
India**

Chair: Durgesh Tripathi

14:00-14:25
Invited lecture
(20+5)

National Large Solar
Telescope (NLST)

K. Rangarajan

14:25-14:50
Invited Lecture
(20+5)

Multi-Application Solar
Telescope (MAST)

Shibu Mathew

14:50-15:15
Invited Lecture
(20+5)

Aditya-L1

S. Seetha