

Lecture Schedule

12 October 2015

[10:00 – 10:15] [ICTS Director, R. Gopakumar](#) – Welcome Address

[10:15 – 11:15] [P. Shastri](#) – The Fanaroff-Riley Dichotomy in AGN Jets and Their Emission-line Regions

Tea-break [11:30 am – 12:00 pm]

[12:00 – 01:00] [P. Sharma](#) – AGN “Feedback”

Lunch-break [01:00 pm – 02:30 pm]

[02:30 – 03:30] [R. Srianand](#) – Winds from AGN: A multi-wavelength Perspective

Tea-break/Discussion/Sight-seeing [03:45 pm – 06:30 pm]

Dinner [06:30 pm – 07:30 pm]

13 October 2015

[10:00 – 11:00] [A. Mangalam](#) - Supermassive Black Holes & Jet Formation: Theory, Observations & Simulations

Tea-break [11:15 am – 11:45 pm]

[11:45 – 12:45] [D. Gabuzda](#) – Introduction to VLBI Studies of Blazars

Lunch-break [01:00 pm – 02:30 pm]

[02:30 – 03:30] [Bindu Rani](#) - High-energy Emission from Blazars

Tea-break/Discussion/Sight-seeing [03:45 pm – 06:30 pm]

Dinner [06:30 pm – 07:30 pm]

Talk Schedule

14 October 2015

[10:00 – 10:15] [ICTS Founding Director, S. Wadia](#) – Welcome Address

[10:15 – 10:45] [R. Laing](#) - Introductory Talk of the Jets meeting

Session I. Feeding/accretion

(Chair: A. Readhead)

[10:45 – 11:15] [M. Hardcastle](#) - Low-Excitation & High-Excitation Radio Galaxies: An X-ray Perspective

Tea-Break [11:15 am – 12:00 pm]

[12:00 – 12:15] [P. Saikia](#) - Using Fundamental Plane to constrain Jet Physics

[12:15 – 12:30] [C. S. Stalin](#) - Gamma-ray emitting NLSy1 galaxies

[12:30 – 12:45] [N. Pekeur](#) - A QPO in the optical polarization of PKS 2155-304

Lunch-Break [12:45 pm – 02:00 pm]

Session II. Jet formation/small scales – VLBI

(Chair: P. Shastri)

[02:00 – 02:30] [D. Gabuzda](#) - Helical Magnetic Fields Associated with AGN Jets

[02:30 – 03:00] [T. Hovatta](#) - A Spectral Index Study of the Jets in MOJAVE

Tea-Break [03:00 pm – 03:45 pm]

[03:45 – 04:15] [M. Orienti](#) - Radio Jets in Seyfert Galaxies with VLBI and FERMI

[04:15 – 04:30] [M. Joshi](#) - Theoretical Study of the Effects of Magnetic Field Geometry on the High-Energy Emission of Blazars

[04:30 – 05:00] Debate on “AGN Feedback and the Physical Nature of the FRI-FRII Divide” moderated by R. Laing

15 October 2015

Session II Contd. Jet formation/small scales - VLBI

(Chair: D. Gabuzda)

[10:00 – 10:30] [A. Zensus](#) - New insights on AGN radio cores from Ground and Space Observations

[10:30 – 11:00] [H. Falcke](#) - The Jet in the Galactic Center: Future Role of mm-VLBI

[11:00 – 11:15] [R. Reeves](#) - Blazar jets: insights from radio and gamma-ray light curves

Tea-Break [11:15 am – 12:00 pm]

Session III. Jet formation/small scales - High energy

(Chair: H. Marshall)

[12:00 – 12:30] [W. Potter](#) - Jet Formation and Propagation in FSRQs & BL Lacs

[12:30 – 12:45] [P. Rani](#) - Short time flux variation of AGNs using NuSTAR

Lunch-Break [12:45 pm – 02:00 pm]

[02:00 – 02:30] [E. Meyer](#) - Constraining Jet Emission Mechanisms with FERMI

[02:30 – 02:45] [R. Chatterjee](#) - Nature of Multiband Outbursts of Fermi Blazars

[02:45 – 03:00] [V. Paliya](#) - High Energy Flares of Blazars

Tea-Break [03:00 pm – 03:45 pm]

[03:45 – 04:15] [B. Wills](#) - Probing Magnetic Fields in Blazar Jets from a Radio/Optical Polarization Study

[04:15 – 04:25] [Bindu Rani](#) - Extreme flaring activity in S50716+714

in 2014

[04:25 – 04:35] [A. Sinha](#) - On the spectral curvature of 1ES1011+496

[04:35 – 04:45] [D. Bhattacharya](#) – Uncorrelated Multi-wavelength Variability of 3C279

[04:45 – 05:15] Debate on “Where do gamma-rays come from”
moderated by Bindu Rani

[06:00 pm – 07:00 pm] Cultural Event

Anamika – Searching for Krishna

A Collaboration of Classical Dances and Theatre

Scripted and Directed by Meghna Das

16 October 2015

Session IV. FRI/II; large scale; unification

(Chair: H. Falcke)

[10:00 – 10:30] [A. Tchekhovskoy](#) - Jets from Magnetically Arrested Disks

[10:45 – 11:15] [M. Nakamura](#) - The Magnetohydrodynamic Model of the M87 Jet

[11:15 – 11:25] [K. G. Biju](#) - Study of the radio spectral properties of 4C 35.06

Tea-Break [11:25 am – 11:45 am]

[11:45 – 12:00] [P. Shastri](#) - Relativistically Beamed Jets and the Blazar Divide

[12:00 – 12:30] [M. Perucho](#) - Jet Deceleration in Radio Galaxies and the FR Dichotomy

[12:30 – 12:45] [H. Marshall](#) - X-ray Imaging of a Complete Sample of FR II Quasar Jets

[12:45 – 01:00] [S. Sahayanathan](#) - On X-ray Emission Process from the radio/optical Knots of Kiloparsec scale Jets of AGN

Lunch-Break [01:00 pm – 02:00 pm]

Session IV Contd. FRI/II; large scale; unification

(Chair: Gopal-Krishna)

[02:00 – 02:30] [B. Reville](#) - Particle Acceleration in Jet Shocks

[02:30 – 02:45] [S. Wykes](#) - Probing jet composition in Centaurus A

[02:45 – 03:00] [P. Wiita \(via Skype\)](#) - Measuring and Modelling Blazar Variability

[03:00 – 03:15] [H. Chand](#) - On AGN outflows based on their associate

absorber systems

[03:15 – 03:45] Debate on “What is the Magnetic Field Structure in Jets” moderated by A. Tchekhovskoy

Tea-Break [03:45 am – 04:15 am]

[4:30 pm – 5:30 pm] Bernard Fanaroff’s Public Lecture

“Astronomy, Big Data and Human Capital Development”

(Prof. Govind Swarup will introduce Prof. Bernard Fanaroff)

17 October 2015

Session IV Contd. FRI/II; large scale; unification

(Chair: E. Meyer)

[10:00 – 10:30] [A. Readhead](#) - Key Radio Unification Steps Before 1980 and Some Related Recent Radio Observations

[10:30 – 11:00] [K. Blundell](#) - The Jets in the Galactic microquasar SS433

Tea-Break [11:00 am – 11:45 am]

[11:45 – 12:15] [J. Bagchi](#) - Kiloparsec-scale Radio Jets from Spiral Galaxies

[12:15 – 12:30] [A. Singal](#) - Can jets showing bends or wiggles be relativistic?

[12:30 – 12:45] [M. Nawaz](#) - 3D precessing jet simulations for radio galaxy Hydra A

Lunch-Break [12:45 pm – 02:00 pm]

Session V. Feedback/outflow

(Chair: M. Hardcastle)

[02:00 – 02:30] [L. Birzan](#) - Jet-mode AGN Feedback with LOFAR

[02:30 – 02:40] [D. Prasad](#) - Cold Gas and AGN Jet Feedback in Cluster Cores

[02:40 – 02:55] [R. Kale](#) - Connection between BCGs and cluster dynamics

Tea-Break [02:55 pm – 03:30 pm]

[03:30 – 04:00] [K. Alatalo](#) - Molecular Outflows in AGN: Role of ALMA

[04:00 – 04:15] [L. Lanz](#) - Jet Feedback on the Hosts of Radio Galaxies

[04:15 – 04:30] [A. Hota](#) - NGC6764, NGC3801 and Spica: Effects of AGN-jets at kpc to Mpc scales, observed in low frequency radio to X-ray bands

[04:30 – 04:45] [D. Mukherjee](#) - AGN Jet-ISM interaction in early galaxies

[04:45 – 04:55] [V. Singh](#) - AGN Jets in distant dusty galaxies

[04:55 – 05:35] [R. Blandford](#) – Summary Talk of the Jets Meeting

Program Banquet at ICTS at 6:15 pm

18 October 2015

Day for Interaction and/or Sight-seeing

Tutorial Schedule

19 October 2015

Start at 10:00 am - Introduction to **CASA** for ALMA, EVLA, and GMRT data-reduction

Instructors:

- [D. Lal](#) (NCRA-TIFR)
- [P. Muralimohan](#) (IIA)
- [R. Khatun](#) (IIA)

20 October 2015

Start at 10:00 am - Introduction to **NuSTARDAS** for NuSTAR X-ray data-reduction

&

Introduction to **Fermi-GST** gamma-ray data-reduction

Instructors:

- [V. Bhalerao](#) (IUCAA)
- [V. Paliya](#) (IIA)
- [P. Rani](#) (IIA)

Poster Presentations

(To be displayed for the entire program)

M. Mhaskey – Extremely Inverted Spectrum Extragalactic Radio Sources

B. Rajput – INOV Characteristics of NLSY1 galaxy SBSJ0849+5108

Sameer – Optical Variability in Blazar 3C66A

Pavana M. – Studying Radio Outflows in the S7 Seyfert Sample

R. Khatun – Distinguishing between Jets, Disks and Dual AGN in Double Peaked Emission Line Galaxies

M. Das – AGN activity and Core-jet Structures in ULIRGs

Sundar M. N. – Probing the Physics of Seyfert Galaxies using Spectroscopic and Multi-wavelength data

S. Rakshit – First spatially resolved black hole mass of a QSO

S. Gulati – Misaligned Active Galaxies in Fermi era

G. Bhatta – A multi-frequency study of the flare in 0716+714

K. Mohana A. – Time resolved SED of Blazars