

**TENTATIVE PROGRAM OF THE MAIN CONFERENCE ON OBSERVATIONAL EVIDENCE FOR BLACK HOLES IN THE UNIVERSE:**

**Venue Vedic Village**

**10<sup>th</sup> February, Sunday: Registration Starts at 3.00pm**

**Inauguration of the conference by Prof. A.K. Roychoudhury at 5.30pm**

**Welcome Drinks at 6.00pm**

**Dinner at Vedic Village at 7.00pm**

**Date 11<sup>th</sup> February, 2008 Monday**

**Venue: Vedic Village**

Prof. S.K. Chakrabarti: Orientation of the whole Activity: 9.30

**Chairperson : Tal Alexander**

<b>Session – AGNs/Quasars</b>		
Robert Antonucci	The True Spectrum of the Quasar Big Blue Bump: Not What You Think.	9.40
Amri Wandel	Observational Evidence for Black Holes in AGNs	10.20
Gabriela Canalizo	Quasar black-hole masses from velocity dispersions.	11.00
Margrethe Wold	BH mass and quasar variability	11.25
<b>Tea Break</b>		<b>11.50</b>
Guido Resaliti	Measuring the size of the X-ray emitting region around a super-massive black hole	12.10
Samir Mandal	Spectral properties of M87 in using two component flow	12.30
Almudena Alonso Herrero	The Host Galaxies and Black Holes of Typical Intermediate red-shift AGN	12.50
Lunch Break		13.10
<b>Session:- Our Galactic Centre and other massive black holes</b>		
<b>Chairperson: Robert Antonucci</b>		
Stefan Gillessen	Black Hole at our Galactic Centre	14.10
Makoto Miyoshi	Radio QPO from SgrA*, with a new method investigating black hole	14.45
Tal Alexander	The Galactic Center as a laboratory for extreme mass ratio gravitational source dynamics	15.25
Reba Bandyopadhyay	Exploring a New Population of Compact Objects: X-ray and IR Observations of the Galactic Centre	16.05

Tea Break		16.25
Andrea Goldwurm	High Energy Emission from the Super Massive Black Hole at the Galactic Center: results from XMM and INTEGRAL observations.	16.45
Mamiko Sato	Infalling Gas onto the Galactic Center Circum-nuclear Ring	17.20
Xavier Hauboiss	Galactic center large program at ESO	17.40
Jari Kotilainen	Co-evolution of super-massive black holes and their host galaxies.	18.00
Ludmila Nazarova	The double peaked galaxy 3C390.3-Jet and/or disk	18.20
Margarita Safonova	Detection of IMBHs from microlensing in globular clusters	18.40
Dinner		19.00

**Venue: Vedic Village**

**February 12<sup>th</sup>, 2008 Tuesday**

**Session: Low Mass Black Holes**

**Chairperson: F. Mirabel**

Name	Title	Time
Felix Mirabel	Microquasars	9.00
Tomaso Belloni	The evolution of black-hole binaries: a unified view.	9.40
Lev Titarchuk	Determination of Black Hole Masses in Galactic X-ray Binaries using Scaling of Spectral Index and Quasi-Periodic Oscillation Frequency Correlation	10.20
<b>Tea Break</b>		<b>11.00</b>
<b>Chairperson: L. G. Titarchuk</b>		
Gloria Sala	Observing Black Hole Binaries With XMM-NEWTON: XTE J1817-330, XTE J1856+053 AND GRS 1915+105	11.30
Elmar Koerding	Connecting stellar and super-massive accreting objects	12.00
Roopesh Ojha	Observational Study of Black Holes in the GLAST era:	12.30
P. Basu	Gravitational waves from extreme mass ratio black holes in presence of an accretion disk	13.00
<b>Lunch Break</b>		<b>13.20</b>

**Chairperson: T. Belloni**

Emrah Kalemci	Galactic Black Holes in the Hard state, a multi-wavelength view of accretion and ejection.	14.20
Nikolaos Kylafis	The role of jets in Galactic black-hole X-ray binaries	14.50
Poshak Gandhi	Simultaneous optical and X-ray flickering observations of GX 339-4: correlations on sub-second timescales	15.20
Arunav Kundu	Low Mass X-ray Binaries and Black Holes in Globular Clusters	15.50
Tea Break		16.20
<b>Chairperson: N. Kylafis</b>		
Gary Case	Low Energy Gamma-Ray Emission from Galactic Black Holes.	16.40
Roberto Soria	Black hole masses in ultraluminous X-ray sources	17.20
Somak Raychaudhury	Observations of ultra-luminous X-ray sources in nearby galaxies	17.50
Shuang-Nan Zhang	Observe matter falling into a black hole	18.10
Zsolt Paragi	Real-Time VLBI Observations of Compact Objects	18.30
Dinner		18.50

**Venue: Vedic Village****February 13<sup>th</sup>, 2008, Wednesday****Session: Low Mass X-ray Binary Cond....****Chairman: Massimo Della Valle**

Name	Title	Time
Smita Mathur	Demographics of black holes in nearby galaxies.	9.30
Josep Marti Ribas	Extended radio emission around Cygnus X-3: a possible jet-driven bubble as in Cygnus X-1?	10.00
Ranjeev Misra	Interpretation of the Soft State Power Spectra of Cyg X-1	10.20
Pedro Luis Luque-Escamilla	Wavelet analysis of fast photometry on Cygnus X-1 with the Astralux camera	10.40
Mamta Pandey	Deep field imaging on microquasars and transient INTEGRAL sources	11.00
Tea Break		11.20
<b>Session: Primordial Black Holes</b>		
A.S. Majumdar	Accretion onto primordial black holes	11:40

Daniel Guariento	Evolution of Primordial Black Holes in a Radiation and Phantom Energy Environment.	12.10
Lunch Break		12.30

**Departure for City Tour and Radisson fFort at 1.30pm. Reaching Radisson fFort at 6.30pm.**

**Poster Session: Please hang your posters at 7.00pm at Radisson Ffort to have maximum exposure. Below are the posters.**

**Venue: Radisson Ffort**

Himadri Ghosh	Monte-Carlo simulation of Comptonization in the post-shock region in a two component flow
Partha Sarathi Pal	Black Hole light curves and their dynamical analysis
Kinsuk Acharyya	Characteristics of Quasi-Periodic Oscillations as obtained through numerical simulations
Mousumi Das	Bright AGN in Dim Galaxies
Dipak Debnath	QPO properties of GRO1655-40 during recent outburst
R. Sarkar	X-ray Observation of SWIFT J1753.5-0127 with RXTE and XMM-Newton
Tong Liu	<b>Constraints on the Mass Accretion Rate of Neutrino-Cooled Disks in Gamma-Ray Bursts</b>
ShanShan Weng	<b>Spectral Evolution of M33 X-8</b>
Senorita Devi Anuboum	Another kind of Black Hole System; The Ultra Luminous X-ray sources, and their luminosities. 18.20
B.G. Dutta	XTE J1550-564 in 1998: A failed Outburst?
Veeresh Singh	X-ray Emission from Seyfert Galaxies: The Surroundings of their Supermassive Black Holes
Himel Ghosh	Low Mass Super-massive Black Holes in Nearby 'Quiescent' Spiral Galaxies.
Rajiv Gupta	Chandrasekhar Limit: History, importance in Astrophysics and some refinements.
Debashis Bhounik	Continuous Spectro-photometry of Black Holes – Small Satellite Mission.
Vipin Yadav	Zone Plates as the high resolution imaging in X-ray Astronomy
P. Basu	<b>Gravitation waves from a oscillating ring around a black hole</b>

Poolside Banquette: 8.00-10.00pm

**Venue: Radisson fFort**

**Date 14<sup>th</sup> February, 2008, Thursday**

**Session: Black Holes Accretion -Theoretical Considerations**

**Chairperson: S. N. Zhang**

R.P. Kerr	Obtaining 'Kerr' Solution	9.00
G. Bisnovaty-Kogan	Accretion disks around black holes: physical models vs. observations	9.30
Sandip K. Chakrabarti	Theoretical and observational constraints of black hole accretion flow: The case of Sub-Keplerian flow	10.10
B. Mukhopadhyay	Predicting spin of compact objects from their QPOs: A global QPO model	10.50
Toru Okuda	Disk and jets around a super-critically accreting black hole	11.15
Soumen Mondal	Spin of the Black Holes from the properties of Oscillating Shocks	11.40
Asit K. Choudhury	Constraints from observations of class transitions in GRS1915+105	12.00
<b>Tea Break and Poster Viewing</b>		<b>12.10</b>
Indranil Chattopadhyay	Effect of plasma constituents on accretion on to black holes	12.30
Yu-Qing Lou	Dynamic Accretions and Outflows	12.50
WeiMin Gu	Maximal possible accretion rate for slim disks	13.10
<b>Lunch Break and Poster Viewing</b>		<b>13.30</b>
<b>Session: Jets and Outflows</b>		
<b>Chairperson: G. Bisnovaty Kogan</b>		
Shuang-Nan Zhang	Jets and environments of Galactic microquasars.	14.30
Sergei Trushkin	Flaring radio variability of microquasars	15.00
Sabyasachi Pal	Multi wavelength observations of Cygnus X3 during the giant flare of May-June 2006.	15.30
Jagdish Singh Yadav	When and how super-luminal jets are produced in microquasars.	15.50
Tea Break & Poster Viewing		16.10

**Session: GRBs and Selected POSTER SESSION talks****Chairperson: A. Pozanenko**

Carlo Bianco	Equations of motion in Gamma-Ray Bursts	17.00
M.G. Bernardini	Testing the "Canonical GRB" Scenario.	17.40
Himadri Ghosh	Monte-Carlo simulation of Comptonization in the post-shock region in a two component flow	18.10
Partha Sarathi Pal	Black Hole light curves and their dynamical analysis	18.15
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Himel Ghosh	Low Mass Supermassive Black Holes in Nearby 'Quiescent' Spiral Galaxies.	18.55

**Poolside Dinner****19.00****Special Session On Gamma Ray Bursts from ICRANET, Pescara Participants 20:00-21:00**

**Venue: Radisson fFort**

**Date: February, 15<sup>th</sup>, 2008; Friday**

**Session: GRBs, Neutron Stars and Black Holes**

**Chairperson: R.P. Kerr**

Name	Title	Time
R. Ruffini	Extracting energy from Black Holes: Case Of GRBs	9.30
W. D. Arnett	Supernovae formation of neutrons stars and black holes	10.10
A. Pozanenko	Gamma-Ray burst afterglow	10.50
S. Moiseenko	Magnetorotational core-collapse supernovae	11.20
F. Sutaria	On the nature of the compact object in quiescent LMXBs.	11.40
Closing Remarks on the Launch <b>M.V. Sarvajaya</b> by Felix Mirabel, R. Ruffini, S. K. Chakrabarti (20mins each) between 7.00pm and 8.00pm before Dinner.		

For those wanting to return back will directly go to the Airport: There would be one or two trips from Radission to Airport depending on the requirements of vehicles. It takes 3 hours to the Airport from the Radisson fFort.

**Trip to Sundarban:** The busses leave the hotel sharp at 12.00 noon. (Lunch Pack on the bus to save time). The bus takes 2.15 hours to reach the Ganges delta area to Kaikhali. There we get in to **M.V. Chitrarekha** and **M.V. Sarvajaya** for Sundarban. The boats start at 3.00pm. We leave Kaikhali jetty at 3.00pm of the 15<sup>th</sup> and return to Sonakhali Jetty at 1.00pm on the 16<sup>th</sup>.

**Note:** We expect to be back to Kolkata after Sundar Ban Trip by 3.30pm on 16<sup>th</sup> February, Saturday to start the Meeting on GRBs/NSs/BHs at SNBNCBS. So those who have return flights after 6:30 pm on the 16th, there should be no problem to take part in this exciting Trip.

The programme of the meeting on GRB/NS/BH will be announced later.