

Meeting on “Non-Perturbative Gauge Theories and Gravity, 2008”

January 7-12

S N Bose National Centre for Basic Sciences, Kolkata

PROGRAMME SCHEDULE

07.01.08 (Monday)

Morning Session: Chaired by A. Patel

Time	Lecture/Event	Speaker
9:30 – 10 AM	Registration	
10:00 -10:45 AM	Welcome address	Director
	Tea	
11:00 AM – 12:00 Noon	Classical motivation for higher dimension for gravity	N. K. Dadhich (IUCCA)
12:00 Noon– 1:00 PM	Yang-Mills in 2+1 dimensions: Basics and Update	V. P. Nair (CUNY)

1:00 – 2:00 PM Lunch

Afternoon Session : Chaired by P. Mitra

2:00 – 3:00 PM	Aspects of Strongly coupled Yang-Mills Theory in 2+1 dimensions	A. Agarwal (CUNY)
3:00 – 3:30 PM	Tea	
3:30 – 4:30 PM	A Yukawa model, bound states and causality	S. D. Joglekar (IIT, Kanpur)
4:30 – 5:30 PM	Holography, CFT and black hole entropy	P. Majumdar (SINP)

08.01.08 (Tuesday)

Morning Session: Chaired by S. D. Joglekar

Time	Lecture/Event	Speaker
9:30 – 10:30 AM	Near-Integrability of 2+1 dimensional and 3+1-Dimensional Gauge Theories	P. Orland (CUNY)
10:30 -11:00 AM	Tea	
11:00 AM – 12:00 Noon	Spin-string interaction in QCD strings	V. Vyas (St. Stephen's College, Delhi)
12:00 Noon– 1:00 PM	Quantum Gravity and the Information Loss Paradox	M. Varadarajan (RRI)

1:00 – 2:00 PM Lunch

Afternoon Session : Chaired by N. K. Dadhich

2:00 – 3:00 PM	Dark energy and dark gravity	R. Maartens (Portsmouth)
3:00 – 3:30 PM	Tea	
3:30 – 4:30 PM	Topological configurations of Yang-Mills theory	E. Harikumar (Hyderabad)
4:30 – 5:30 PM	Twistor strings: Old and New	V. P. Nair (CUNY)

7:00 PM Conference Dinner

09.01.08 (Wednesday)**Morning Session: Chaired by V. P. Nair**

Time	Lecture/Event	Speaker
9:30 – 10:30 AM	TBA	A. Khare (IOP, Bhubaneswar)
10:30 -11:00 AM	Tea	
11:00 AM – 12:00 Noon	Euclidean Path Integrals, Perturbation Theory and Complex Actions	M. B. Paranjape (Université de Montreal, Canada and Sogang University, Korea)
12:00 Noon– 1:00 PM	Deconstruction of Strong CP and its Gravitational analogue	P. Mitra (SINP)

1:00 – 2:00 PM Lunch

Afternoon Session : Chaired by P. Majumdar

2:00 – 3:00 PM	Surface Transport and Gauge Theory	S. Chatterjee (SNBNCBS)
3:00 – 3:30 PM	Tea	
3:30 – 4:30 PM	Instantons and Chern-Simon's Terms in AdS ₄ /CFT ₃ : Gravity on the Brane?	S. de Haro
4:30 – 5:30 PM	Spin-2 Triality	M. Shivakumar (Hyderabad)

10.01.08 (Thursday) - Off day : City sightseeing followed by river cruise

11.01.08 (Friday)**Morning Session: Chaired by P. Orland**

Time	Lecture/Event	Speaker
9:30 – 10:30 AM	Large-N QCD at Strong Transverse Gauge Coupling	A. D. Patel (CHEP, IISc, Bangalore)
10:30 -11:00 AM	Tea	
11:00 AM – 12:00 Noon	Geometry & self-dual supergravity	S. Naik (HRI)
12:00 Noon– 1:00 PM	Schur-Weyl duality, two dimensional gauge theories & random ramified coverings	T. Lévy (CNRS and ENS)
1:00 – 2:00 PM	Lunch	

Afternoon Session : Chaired by V. V. Sreedhar

2:00 – 3:00 PM	Loop quantum gravity of spherically symmetric space-times	J. Pullin (LSU)
3:00 – 3:30 PM	Tea	
3:30 – 4:30 PM	Non Commutative Gravity & Black Holes	K. S. Gupta (SINP)

12.01.08 (Saturday)**Morning Session : Chaired by J. Pullin**

Time	Lecture/Event	Speaker
9:30 – 10:30 AM	Topological investigations into discrete gauge theories.	V. V. Sreedhar (CMI, Chennai)
10:30 -11:00 AM	Tea	
11:00 AM – 12:00 Noon	TBA	A. Ghosh (SINP)
12:00 Noon– 1:00 PM	Loop Approach to Lattice Gauge Theories	M. Mathur (SNBNCBS)

1:00 – 2:00 PM Lunch

End of Conference