

**The South Africa Gravity Society Meeting
(SAGS 2013)**

**August 08-11, 2013
Salt Rock Hotel, Ballito, KZN**

Day 0: 08/08/2013

17:00 Arrival and check in at the Salt Rock Hotel

Day 1: 09/08/2013 :

08:20 – 08:35 *Registration*
08:35 – 08:40 Aroon Beesham *Opening of SAGS 2013*

Chair: Aroon Beesham

08:40 – 09:30 Jayant Narlikar *A synthesis of general relativity and Mach's principle
and its observed consequences*
09:30 – 10:20 Asghar Qadir *Generating Magnetic Fields in Plasmas by Spacetime Curvature*

Tea break

Chair: Sunil Maharaj

10:50 – 11:20 Nigel Bishop *Asymptotic description of gravitational radiation*
11:20 – 11:50 Rituparno Goswami *Gödel's conjecture, Shear-free Cosmologies and Newtonian limit*
11:50 – 12:30 Peter Dunsby *Shining light on the nature of $f(R)$ dark energy*

Lunch Break

Chair: Nigel Bishop

14:00 – 14:20 Radouane Gannouji *Perturbations and stability of higher-dimensional black holes*
14:20 – 14:40 Mathilde Jauzac *Gravitational Lensing Analysis of the 12 'high-redshift'
MACS Galaxy Clusters*
14:40 – 15:10 Megan Govender *Causal heat propagation during dissipative collapse*
15:10 – 15:40 Sudan Hansraj *Plane Symmetric Relativistic Fluids with Taub Geometry*

Tea break

Chair: Matthew Hilton

16:00 – 16:15 Jethro Ridl *Gravitational Lensing in the Cosmic Microwave Background*
16:15 – 16:30 Kavilan Moodley *Cross-correlating CMB lensing with large-scale structure surveys*
16:30 – 16:45 Anne Marie Nzioki *Jebsen-Birkhoff theorem and its stability in $f(R)$ gravity*
16:45 – 17:00 Amos Kubeka *Gravitational radiation emitted by Schwarzschild black hole-point particle
in quasi-circular orbit*

Day 2: 10/08/2013

Chair: Kavilan Moodley

08:30 – 09:20	Sailajananda Mukherjee	<i>Thermodynamics of an Emergent Universe</i>
09:20 – 09:40	Suryakumari Rajah	<i>An Inhomogenous Riccati equation in Radiative Stellar collapse</i>
09:40 – 10:00	Fidy A. Ramamonjisoa	<i>CMB polarization TE power spectrum estimation with non-circular beam</i>

Tea break

Chair: Sudan Hansraj

10:30 – 10:50	Anslyn John	<i>Shocks in Chaplygin gas accretion</i>
10:50 – 11:05	Apratim Ganguly	<i>Neutron stars in $R + \alpha R^2$ gravity model</i>
11:05 – 11:20	Gezahegn Abebe	<i>A shearing and expanding star with symmetries</i>
11:20 – 11:35	Kevin P Reddy	<i>Dynamical instability during dissipative collapse</i>
11:35 – 12:00	Sushant Ghosh	<i>Deformed Kerr black hole and energy extraction</i>

12:10 – 13:00	SAGS General Body Meeting
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Lunch Break