

Session Program

13-18 Dec 2015



28th Texas Symposium on Relativistic Astrophysics

Plenary talks

International Conference Centre Geneva
17 Rue de Varembé, 1211 Geneva

Monday 14 December

09:35

Plenary talks

Session | **Location:** International Conference Centre Geneva, Level 0, Room 2, 17 Rue de Varembe, 1211 Geneva

09:35–10:10 **First hundred years of GR: successes, status and prospects**

Speaker

Prof. Thanu Padmanabhan

10:10–10:45 **Relativistic effects in large-scale structure surveys**

Speaker

Camille Bonvin

10:45

11:20

Plenary talks

Session | **Location:** International Conference Centre Geneva, Level 0, Room 2, 17 Rue de Varembe, 1211 Geneva

11:20–11:55

CMB temperature and polarisation anisotropies: a goldmine for cosmology.

Speaker

Nabila Aghanim

11:55–12:30 **CMB spectral distortions**

Speaker

Prof. Rashid Sunyaev

12:30

Tuesday 15 December

09:00

Plenary talks

Session | **Location:** International Conference Centre Geneva, Level 0, Room 2, 17 Rue de Varembeé, 1211 Geneva

09:00–09:35 **A unifying description of dark energy**

Speaker
David LANGLOIS

09:35–10:10 **Dark matter detection - an experimental overview**

Speaker
Prof. Laura Baudis

10:10–10:45 **Towards fundamental physics from cosmological surveys**

Speaker
Prof. Hiranya Peiris

10:45

11:20

Plenary talks

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11:20–11:55 **The equation of state of dense matter**

Speaker
Prof. Anna Watts

11:55–12:30 **Status of the Advanced Virgo project**

Speaker
Prof. Fulvio Ricci

12:30

Wednesday 16 December

09:00

Plenary talks

Session | **Location:** International Conference Centre Geneva, Level 0, Room 2, 17 Rue de Varembe, 1211 Geneva

09:00–09:35

Making waves: modeling gravitational waves from coalescing binary systems

Speaker

Prof. Alessandra Buonanno

09:35–10:10

Rattle and shine by compact binaries mergers

Speaker

Prof. Luis Lehner

10:10–10:45

Experimental tests of general relativity in binary systems

Speaker

Prof. Michael KRAMER

10:45

11:20

Plenary talks

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11:20–11:55

Quantum effects on black holes: evaporation, tunnelling, information leak. Anything observable?

Speaker

Prof. Carlo Rovelli

11:55–12:30

The LHC and the Universe

Speaker

Gian Giudice

12:30

Thursday 17 December

09:00

Plenary talks

Session | **Location:** International Conference Centre Geneva, Level 0, Room 2, 17 Rue de Varembe, 1211 Geneva

09:00–09:35

IceCube and the discovery of high-energy cosmic neutrinos

Speaker

Prof. Francis Halzen

09:35–10:10

The gamma-ray Universe

Speaker

Prof. Jim Hinton

10:10–10:45

Cosmic ray acceleration and transport

Speaker

Prof. Pasquale Blasi

10:45

Friday 18 December

09:00

Plenary talks

Session | **Location:** International Conference Centre Geneva, Level 0, Room 2, 17 Rue de Varembe, 1211 Geneva

09:00–09:35 **ESA gravitational wave observatory, eLISA and LISA Pathfinder**

Speaker

Prof. Stefano Vitale

09:35–10:10 **Exact solutions in astrophysics**

Speaker

Prof. Mustapha Ishak

10:10–10:45

Exploring gravity in the strong field regime with high throughput X-ray measurements

Speaker

Prof. Luigi Stella

10:45

11:20

Plenary talks

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11:20–11:55 **Heading into the abyss: X-ray spectral timing of accreting black holes**

Speaker

Prof. Andrew Fabian

11:55–12:30 **Disks and jets**

Speaker

Alexander Tchekhovskoy

12:30