

Session Program

11-16 Dec 2022



24th Australian Institute of Physics Congress

AIP: Relativity and Gravitation

Monday 12 December

11:00

AIP: Relativity and Gravitation: ASGRG 1

Session | Location: Adelaide Convention Centre, Room R2 | Convener: Dr Karelle Siellez

11:00-11:15

Seismic-isolation-chain displacement sensing using Digital Interferometry

Speaker

Ya Zhang

11:15-11:30

The Optical Limit of Phase Measurement in Space Based Interferometry

Speaker

Callum Sambridge

11:30-11:45

Enhanced laser noise suppression for LISA using arm and cavity locking

Speaker

Mr Jobin Valliyakalayil

11:45-12:00

Characterization of laser offset phase locking for a Newtonian noise sensor

Speaker

Sheon Chua

12:00-12:15

Tolerance of Hartmann Wavefront Sensors to third-order optical aberrations in the projecting telescopes

Speaker

Madison Simmonds

12:15-12:30

The latest development in ALFRA, the UWA low-frequency rotational accelerometer

Speaker

Carl Blair

12:30

14:00

AIP: Relativity and Gravitation: ASGRG 2

Session | Location: Adelaide Convention Centre, Room R2 | Convener: Krzysztof Bolejko

14:00-14:15

The cautious tale of GW200129: mimicking binary black-hole spin-precession with detector noise

Speaker

Mr Ethan Payne

14:15-14:30

Black holes, white holes, wormholes: their geometry and physics

Speaker

Daniel Terno

14:30-14:45

Horizon Singularities and Energy Momentum Tensor Classification**Speaker**

Ioannis Soranidis

14:45-15:00

Continuous Gravitational Waves from Young Neutron Stars**Speaker**

Ben Grace

15:00-15:15

Space-Time Inside a Star**Speaker**

Samuel Drake

15:15-15:30

Quantum signatures of a mass-superposed black hole**Speaker**

Joshua Foo

15:30