

Session Program

30 March 2020 to 3 April 2020



PHAROS Conference 2020: The multi-messenger physics and astrophysics of neutron stars

Parallel 3B

Porto Rio Hotel, Patras, Greece, Room 1, 2

Monday 30 March

16:30

Parallel 3B

Session | **Location:** Room 2

16:30–16:45

Superconducting phases in a two-component microscale model of neutron star cores

Speaker

Dr Vanessa Graber

16:45–17:00

Simulations of the magnetic field evolution in neutron star cores in the strong-coupling regime

Speaker

Francisco Castillo Andahur

17:00–17:15

Instability of twisted magnetar magnetospheres

Speaker

Jens Mahlmann

17:15–17:30

Crust-Magnetosphere Feedback

Speaker

Mr George Chouliaras

17:30–17:45

Current closure through the neutron star crust

Speaker

Dr Vasileios Karageorgopoulos

17:45–18:00

Axisymmetric equilibrium models for magnetised neutron stars in Scalar-Tensor Theories

Speaker

Jacopo Soldateschi

18:00–18:15

Perturbation to a magnetic neutron star with shear modulus

Speaker

Mr Prasanta Bera

18:15–18:30

The effects of localized heating in the crust of a neutron star

Speaker

Mr De Grandis Davide

18:30

Tuesday 31 March

16:30

Parallel 3B

Session | **Location:** Room 2

16:30–16:45

Predicting Broadband Emission from Millisecond Pulsar Binaries

Speaker

Dr Zorawar Wadiasingh

16:45–17:00

Radio pulsations from the *Fermi*-LAT source 3FGL J2039.6-5618

Speaker

Dr Alessandro Corongiu

17:00–17:15

The Variable Redback PSR J2039-5617

Speaker

Colin Clark

17:15–17:30

Does the black widow PSR J1555-2908 have an additional planetary companion?

Speaker

Lars Nieder

17:30–17:45

The Magnetic Field Structure of Pulsating Ultra-Luminous X-ray Sources

Speaker

Mr Brice Nabil

17:45–18:00

Common-Envelope Episodes that lead to Double Neutron Star formation

Speaker

Dr Alejandro Vigna Gomez

18:00

Wednesday 1 April

16:30

Parallel 3B

Session | **Location:** Room 2

16:30–16:45 **New neutron star solutions in tensor-multi-scalar theories**

Speaker

Stoytcho Yazadjiev

16:45–17:00

Scalarized neutron stars with a massive scalar field - astrophysical implications

Speaker

Dr Daniela Doneva

17:00–17:15

Radiation Transport in First-Principles Simulations of Merger Remnant Accretion Disks

Speaker

Ms Beverly Lowell

17:15–17:30

Rotating neutron stars with non-barotropic thermal profile

Speaker

Giovanni Camelio

17:30–17:45

Fast Rotating Relativistic Stars: Spectra and Stability without Approximation

Speaker

Dr Christian Krueger

17:45–18:00

Gravitational-wave-driven tidal secular instability in neutron star binaries

Speaker

Pantelis Pnigouras

18:00–18:15

Cracking and convective stability of self-gravitating anisotropic polytropic spheres in general relativity

Speaker

Mr Daniel Suárez

18:15