

Session Program

30 March 2020 to 3 April 2020



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

Parallel 1B

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

Monday 30 March

11:30

Parallel 1B

Session | **Location:** Room 2

11:30–11:45

New results on magnetar outbursts: the Galactic center magnetar and other outliers

Speaker

Dr Nanda Rea

11:45–12:00

The tireless magnetar

Speaker

Dr Alice Borghese

12:00–12:15

The formation of “massive” proto-magnetars

Speaker

Prof. Aloy Miguel Ángel

12:15–12:30

Complex magnetic field topologies in core-collapse supernovae

Speaker

Dr Matteo Bugli

12:30–12:45

Numerical models for the amplification and growth of magnetic field in compact objects.

Speaker

Niccolo' Bucciantini

12:45–13:00

The First Day in the Life of a Magnetar

Speaker

Dr Sinem Şaşmaz Muş

13:00

Tuesday 31 March

11:30

Parallel 1B

Session | **Location:** Room 2

11:30–11:45

Model-independent constraints on the superfluidity of superdense nuclear matter from the analysis of the cooling neutron star in Cassiopeia A supernova remnant.

Speaker

Petr Shternin

11:45–12:00

Modeling the cooling phase of proto neutron stars

Speaker

Aurélien Pascal

12:00–12:15

Crystallization of the outer crust of non-accreting neutron stars

Speaker

Anthea Francesca Fantina

12:15–12:30

Constraining critical temperature profiles with r-mode instability in neutron stars

Speaker

Vasiliy Dommes

12:30–12:45

Unified description of magnetar crusts

Speaker

Ms Yuliya Mutafovchieva

12:45–13:00

Deformations of neutron stars with elastic crusts

Speaker

Fabian Gittins

13:00

Wednesday 1 April

11:30

Parallel 1B

Session | **Location:** Room 2

11:30–11:45

Long-duration gravitational wave transients - recent results and future prospects

Speaker

David Keitel

11:45–12:00

Recent Results from the North American Nanohertz Observatory for Gravitational Waves

Speaker

Dr Timothy Pennucci

12:00–12:15

GrailQuest & HERMES: Hunting for Gravitational Wave Electromagnetic Counterparts and Probing Space-Time Quantum Foam

Speaker

Luciano Burderi

12:15–12:30

The Search for Gamma-ray Counterparts to Binary Neutron Star Mergers with Fermi

Speaker

Cori Fletcher

12:30–12:45

Understanding GWs from core-collapse supernovae

Speaker

Dr Pablo Cerdá-Durán

12:45–13:00

Building mountains on accreting neutron stars

Speaker

Ian Jones

13:00

Thursday 2 April

11:30

Parallel 1B

Session | **Location:** Room 2

11:30–11:45

Population Synthesis of Young and Millisecond Pulsars from the Galactic Disk

Speaker

Prof. Peter Gonthier

11:45–12:00

The Fast Folding Algorithm for large-scale pulsar surveys

Speaker

Vincent Morello

12:00–12:15

First results of reprocessing LOTAAS data with a Fast Folding Algorithm

Speaker

Mr Bezuidenhout Mechiel

12:15–12:30

FRBs and other transients with MeerTRAP

Speaker

Prof. Benjamin Stappers

12:30–12:45

The luminosity-volume test for cosmological fast radio bursts

Speaker

Michele Ronchi

12:45