

Session Program

30 March 2020 to 3 April 2020



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

Parallel 1A

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

Monday 30 March

11:30

Parallel 1A

Session | **Location:** Room 1

11:30–11:45

Unified equations of state of cold dense matter in nonaccreted neutron stars

Speaker

Dr Nicolas Chamel

11:45–12:00

Studying the Neutron Star Interior in Transient Low-Mass X-Ray Binaries

Speaker

Dany Page

12:00–12:15

Finite temperature equation of state with exotic degrees of freedom

Speaker

Adriana Raduta

12:15–12:30

A new low-density equation of state from an experimental data analysis including in-medium effects

Speaker

Dr Helena Pais

12:30–12:45

Dense Matter Phases inside Neutron Stars: Constraints from Observations

Speaker

Mr Prasanta Char

12:45–13:00

How model atmospheres help us to investigate neutron star interiors

Speaker

Dr Valery Suleimanov

13:00

Tuesday 31 March

11:30

Parallel 1A

Session | **Location:** Room 1

11:30–11:45

Hybrid modeling of high-energy emission in pulsars

Speaker

Dr Ioannis Contopoulos

11:45–12:00

How pair pair formation in polar caps fills magnetosphere with plasma, heats NS surface, and generates radio emission.

Speaker

Dr Andrey Timokhin

12:00–12:15

Proton acceleration in pulsar magnetospheres

Speaker

Claire Guepin

12:15–12:30

Particle-in-cell simulations of pair discharges at pulsar polar caps

Speaker

Fabio Cruz

12:30–12:45

A Single spark model for PSR J2144-3933

Speaker

Prof. George Melikidze

12:45–13:00

Distortions of polarization angle curve in radio pulsars

Speaker

Dr Dyks Jarek

13:00

Wednesday 1 April

11:30

Parallel 1A

Session | **Location:** Room 1

11:30–11:45

Observational updates on accreting millisecond pulsars

Speaker

Dr Andrea Sanna

11:45–12:00

On the torque reversals of accreting neutron stars

Speaker

Unal Ertan

12:00–12:15

Do transitional millisecond pulsars power dwarf pulsar wind nebulae?

Speaker

Dr Alessandro Papitto

12:15–12:30

Are tMSP Companions Roche-Lobe Filling In Their Pulsar State?

Speaker

Mr James Stringer

12:30–12:45

A successful quest for a transitional pulsar: the case of CXOU J110926.4-650224

Speaker

Dr Francesco Coti Zelati

12:45–13:00

Transitional millisecond pulsar binaries during active radio pulsar state

Speaker

Dr Domitilla de Martino

13:00

Thursday 2 April

11:30

Parallel 1A

Session | **Location:** Room 1

11:30–11:45

The observed evolution of pulsar rotation on human timescales

Speaker

Aris Karastergiou

11:45–12:00

The glitch size distribution of the Vela pulsar and small pulsar glitches

Speaker

Cristóbal Espinoza

12:00–12:15

The 2016 Vela Glitch and Implications for Neutron Star Structure and Dynamics

Speaker

Dr Erbil Gügercinoğlu

12:15–12:30

Core and crust contributions in overshooting glitches: the Vela pulsar 2016 glitch

Speaker

Mr Alessandro Montoli

12:30–12:45

High-resolution phase coherent optical timing of the Vela pulsar and PSR J1023+0038 with Aqueye+ and Iqueye

Speaker

Dr Aleksandr Burtovoi

12:45–13:00

Braking indices of the glitching pulsars

Speaker

Dr Onur Akbal

13:00