

Session Program

30 March 2020 to 3 April 2020



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

Parallel 2A

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

Monday 30 March

14:30

Parallel 2A

Session | **Location:** Room 1

14:30–14:45

Empirical constraints on the high-density equation of state from multi-messenger observables

Speaker

Márcio Ferreira

14:45–15:00

Bayesian Inference of the Neutron Star Equation of State from Astrophysical Observations

Speaker

Ms Silvia Traversi

15:00–15:15

Hot-Neutron Rich Nuclear Matter Studied with the BCPM Nuclear Energy Density Functional

Speaker

Ms Clara Dehman

15:15–15:30

Tidal deformations of hybrid stars with sharp phase transitions and elastic crusts

Speaker

Dr Jonas Pereira

15:30–15:45

Tidal Deformability, Phase Transitions and Stiffness of the Nuclear Equation of State

Speaker

Mr Jan-Erik Christian

15:45–16:00

Effect of particle diffusion on damping of neutron star oscillations

Speaker

Kirill Kraav

16:00

Tuesday 31 March

14:30

Parallel 2A

Session | **Location:** Room 1

14:30–14:45 **From Fermi and NICER data to Pulsar Magnetosphere Models**

Speaker

Dr Constantinos Kalapotharakos

14:45–15:00

Introducing a novel approach for modelling pulsar light curves together with their spectral energy distribution

Speaker

Diego F Torres

15:00–15:15

Joint radio and X-ray modelling of PSR~J1136+1551

Speaker

Jérôme Pétri

15:15–15:30

Understanding the radio beam of PSR J1136+1551 through its single pulses

Speaker

Ms Lucy Oswald

15:30–15:45

Very cool gamma-ray pulsar J1957+5033

Speaker

Dr Dmitry Zyuzin

15:45–16:00

Some Glimpses of Plasma Process Involved on Modelling of Radio Pulsar's Power spectra

Speaker

Mr Tridib Roy

16:00

Wednesday 1 April

14:30

Parallel 2A

Session | **Location:** Room 1

14:30–14:45 **Is there a pulsar wind nebula or a disk around RX J0806.4-4123?**

Speaker

Dr Bettina Posselt

14:45–15:00 **An HD numerical model of the G21.5-0.9 Pulsar Wind Nebula**

Speaker

Barbara Olmi

15:00–15:15 **Discovery of subsecond jet variability in an accreting neutron star**

Speaker

Dr Federico Vincentelli

15:15–15:30

Dramatic spectral changes at very low luminosity state of X-ray pulsars

Speaker

Alexander Mushtukov

15:30–15:45 **The puzzling NS LMXB 1RXS J180408.9-342058 in intermediate state**

Speaker

Alessio Marino

15:45–16:00

Investigation of emission and variability behavior of accreting neutron star LMXB 4U 1724-30

Speaker

Manoneeta Chakraborty

16:00

Thursday 2 April

14:30

Parallel 2A

Session | **Location:** Room 1

14:30–14:45

Observational signatures of superfluid neutron star turbulence

Speaker

Brynmor Haskell

14:45–15:00

The impact of glitches on the rotational evolution of young pulsars

Speaker

Marcus Lower

15:00–15:15

Vortex pinning in the superfluid core of neutron stars and the rise of pulsar glitches

Speaker

Aurélien Sourie

15:15–15:30

Vortex dynamics in neutron stars

Speaker

Dr Marco Antonelli

15:30–15:45

Quantum vortices in ultracold atomic gases and in neutron stars: similarities and differences

Speaker

Prof. Gabriel Wlazłowski

15:45–16:00

Modeling superfluidity in neutron stars with Brussels-Montreal functionals

Speaker

Dr Daniel Pęcak

16:00–16:15

Universality of the relativistic correction to glitch rise-times

Speaker

Lorenzo Gavassino

16:15