

Session Program

30 March 2020 to 3 April 2020



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

Invited Talks

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

Monday 30 March

09:00

Invited Talks

Session | **Location:** Room 1

09:00–09:30

A NICER view of neutron stars (Invited)

Speaker

Prof. Cole Miller

09:30–10:00

Magnetic-field evolution in the presence of superconductivity

Speaker

Sam Lander

Location

Room 1

10:00–10:30

How giant magnets shine and slowly fade away (Invited)

Speaker

Daniele Viganò

Location

Room 1

10:30–11:00

Magnetars and other classes of Isolated neutron stars in X-rays (Invited)

Speaker

Prof. Zane Silvia

Location

Room 1

11:00

Tuesday 31 March

09:00

Invited Talks

Session | **Location:** Room 1

09:00–09:30

Kinetic simulations of pulsar magnetospheres (Invited)**Speaker**

Mr Anatoly Spitkovsky

09:30–10:00

A new look at the high-energy emission in pulsars from kinetic plasma simulations (Invited)**Speaker**

Benoit Cerutti

10:00–10:30

Probing the interior of transiently accreting neutron stars (Invited)**Speaker**

Dr Nathalie Degenaar

10:30–11:00

Crust structure and thermal evolution of neutron stars in soft X-ray transients (Invited)**Speaker**

Dr Alexander Potekhin

11:00

Wednesday 1 April

09:00

Invited Talks

Session | **Location:** Room 1

09:00–09:30

Neutron star EOS constraints through gravitational-wave observations (Invited)

Speaker

Prof. Nick Stergioulas

09:30–10:00

Modelling multimessenger signals from compact binary mergers (Invited)

Speaker

Albino Perego

10:00–10:30

Neutron star mergers across the electromagnetic spectrum

Speaker

ELEONORA TROJA

10:30–11:00

Radio emission as a probe for pulsar magnetospheres (Invited)

Speaker

Dr Patrick Weltevrede

11:00

Thursday 2 April

09:00

Invited Talks

Session | **Location:** Room 1

09:00–09:30

Superfluidity and Superconductivity in Neutron Stars (Invited)

Speaker

Prof. Mehmet Ali Alpar

09:30–10:00

The rotational dynamics of young, isolated pulsars (Invited)

Speaker

Danai Antonopoulou

10:00–10:30

What happened during 2016 Vela glitch? (Invited)

Speaker

Yuri Levin

10:30–11:00

The Fast Radio Burst Phenomenon (Invited Review Talk)

Speaker

Dr Manisha Caleb

11:00

Friday 3 April

09:00

10:30

Invited Talks

Session | Location: Room 1

09:00–09:30

Populations of Neutron Stars (Invited)

Speaker
Dr Lina Levin Preston

09:30–10:00

The Hadronic Equation of State for Neutron Stars (Invited Review Talk)

Speaker
Dr Laura Tolos

10:00–10:30

Resonant Shattering Flares as Multimessenger Probes of Neutron Star Physics (Invited)

Speaker
Dr David Tsang