**Seminarium Astrofizyczne**

wtorek 11.05.2021 godz. 12:30

https://www.gotomeet.me/NCBJmeetings/seminarium-astrofizyczne

ID 349-387-373

Password: AstroSemi

# Brynmor Haskell

(Nicolaus Copernicus Astronomical Center of the Polish Academy of Science, Warsaw)

Modelling neutron star interiors in the age of gravitational wave detections

Neutron stars are a fantastic physical laboratory, that allows us to probe fundamental physics, including phenomena such as superfluidity, in regimes that cannot be replicated in terrestrial laboratories. In this talk I will discuss recent advances in theoretical modelling, and show how multi-messenger observations, that make use of both electromagnetic and gravitational wave signals, can be used to constrain fundamental parameters. In particular I will focus on the impact of superfluidity on the theoretical side, and on searches for continuous gravitational waves on the observational side.

Serdecznie zapraszam,

Agnieszka Majczyna