

Session Program

13-14 Oct 2022



Belgian-Dutch Gravitational Wave Meeting 2022

Theory and Astrophysics

Het Pand, Vergaderzaal 2.3 August Vermeylen
Onderbergen 1, 9000 Ghent, Belgium

Friday 14 October

13:50

Theory and Astrophysics

Session | **Location:** Het Pand, Vergaderzaal 2.3 August Vermeylen, Onderbergen 1, 9000 Ghent, Belgium | **Convener:** Tanja Hinderer

13:50–14:00 **Modelling neutron star matter**

Speaker
Prasanta Char

14:00–14:10 **Black hole multipoles in higher-derivative gravity**

Speaker
Pablo Antonio Cano

14:10–14:20

Searching higher-derivative extensions to GR in black holes' ringdown

Speaker
Simon Maenaut

14:20–14:30

Nonlinear effects in the black hole ringdown: absorption-induced mode excitation

Speaker
Pablo Bosch

14:30–14:40

Tidally perturbed isolated horizons

Speaker
Ariadna Ribes Metidieri

14:40–14:50

The motion of test bodies in curved spacetime and its applications to GWs physics

Speaker
Adrien Druart

14:50–15:00

Relativistic modelling of EMRIs environment

Speaker
Ludovico Machet

15:00–15:10

Gradient corrections to the one-loop effective action for strong electroweak phase transitions

Speaker
Sofia Canevarolo

15:10–15:20

Gravitational waves from dark matter production

Speaker
Miguel Vanvlasselaer

15:30

15:55

Theory and Astrophysics

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Convener: Thomas Hertog

15:55–16:05 **Finding quiescent black holes in massive binaries**

Speaker

Hugues Sana

16:05–16:25 **How do binary stars form compact object mergers?**

Speaker

Pablo Marchant

16:25–16:35 **Forming merging double compact objects with stable mass transfer**

Speaker

Annachiara Picco

16:35–16:45 **REMOTE: Gravitational wave spectral synthesis**

Speaker

Wouter van Zeist

16:45–16:55

REMOTE: SOBBH with LISA: forecasts of background and events detectability in the light of GWTC-3

Speaker

Jesus Torrado

17:00