# **Session Program**

27-28 Oct 2025



# Belgian-Dutch Gravitational Wave Meeting 2025 Contributed talks

Huygensgebouw, HG00.304

## **Monday 27 October**

14:00

#### Contributed talks

Session | Location: Huygensgebouw, HG00.304

#### 14:00-14:15

Search for gravitational waves associated with high-energy neutrinos detected by IceCube during the LIGO-Virgo run O3

#### Speaker

Matthias Vereecken

#### 14:15-14:30

Leveraging the null stream to detect strongly lensed gravitational wave signals

#### Speaker

Jef Heynen

#### 14:30-14:45

Mitigating systematic errors in Parameter Estimation in the era of loud gravitational wave signals

#### Speaker

Sumit Kumar

## 14:45-15:00

Residual Test to Search for Microlensing Signatures in Strongly Lensed **Gravitational Wave Signals** 

#### Speaker

**Eungwang Seo** 

#### 15:00-15:15

Searches for Signatures of Gravitational Wave Lensing in LIGO--Virgo--KAGRA **Data** 

## **Speaker**

Mick Wright

#### 15:15-15:30

Exploring degeneracies between Precession and Microlensing in GW Signals

#### Speaker

Disha Hegde

15:30

## 14:00

#### Contributed talks

Session | Location: Huygensgebouw, HG00.307

14:00-14:15 Signatures of Phase Transition in Neutron Star Mergers

#### Speaker

Pablo Bosch

Cosmic superstrings in large volume compactifications: PTAs, LISA and timevarying tension

Speaker

Filippo Revello

14:30-14:45

Gravitational Waves from tri-axial rotating stars in Linearized gravity - an analytical boundary value problem approach

Prakash Sarnobat

14:45-15:00

Equation of State at finite temperature in the era of new nuclear physics and multimessenger constraints

Speaker

Chiranjib Mondal

15:00-15:15 Thermal Effects on Tidal Deformabilities of Neutron Stars

Speaker

**Ethan Carlier** 

15:30 16:00

#### Contributed talks

Session | Location: Huygensgebouw, HG00.307

16:00-16:15 Approach to the separatrix with eccentric orbits

Speaker

Guillaume Lhost

## 16:15-16:30

Gravitational waves from the quasi-spherical inspiral of a spinning body in Kerr spacetime

Speaker

Gabriel Andres Piovano

16:30-16:45

Testing modified gravity with the eccentric neutron star--black hole merger GW200105

Speaker

Justin Janquart

16:45-17:00 Non-linear dynamics beyond General Relativity

Speaker

Llibert Aresté Saló

17:00-17:15 Solving Einstein's equations as Bayesian inference

Speaker

Tom Colemont

17:30

16:00

## Contributed talks

Session | Location: Huygensgebouw, HG00.304

16:00-16:15

Combining Modelled and Unmodelled Inference Methods for Compact Binary Coalescences

Speaker

Robin Chan

#### 16:15-16:30

Bayesian Calibration of Gravitational-Wave Detectors Using Null Streams Without **Waveform Assumptions** 

Speaker

Francesco Cireddu

## 16:30-16:45

Simulation-Based Inference for Stochastic Gravitational Wave Transients from **Core-Collapse Supernovae** 

Speaker

Chun-Fung Wong

## 16:45-17:00

EMRIs for Mojito Dataset: Simulating and Validating a Relevant Catalog of **Extreme Mass-Ratio Inspirals for LISA** 

Speaker

Bert Depoorter

#### 17:00-17:15

Encoding neutron star information into neural priors for gravitational wave analyses

Speaker

Thibeau Wouters

17:15-17:30 Glitch mitigation in the era of third-generation detectors

Speaker

Harsh Narola

17:30

# **Tuesday 28 October**

11:00

#### Contributed talks

Session | Location: Huygensgebouw, HG00.307

#### 11:00-11:15

Does the Local Universe dominate Astrophysical Gravitational Wave Background **Anisotropies?** 

#### **Speaker**

Coen Rondeel

#### 11:15-11:30

Simulation of Core-Collapse Supernovae with advanced neutrino transport

#### **Speaker**

**Arthur Offermans** 

11:30-11:45 Resolving white dwarf binaries within globular clusters with LISA

#### Speaker

Wouter van Zeist

#### 11:45-12:00

Stable evolutions of ultracompact black hole mimickers in 3+1 dimensions.

#### Speaker

Seppe Staelens

## 12:00-12:15

Extreme mass ratio inspirals with eccentricity in a scalar cloud environment

#### Speaker

Robrecht Keijzer

12:15-12:30 3DMHD simulations of stellar mergers & their GW signals

#### Speaker

Dr Javier Moran Fraile

12:30

11:00

## Contributed talks: Contributed talks

**Session** | **Location:** Huygensgebouw, HG00.304

11:00-11:15 Probing gravitational waves using GNSS constellations

#### Speaker

**Bruno Bertrand** 

Neural likelihood estimators for flexible Gravitational wave data analysis

#### Speaker

Luca Negri

11:30-11:45 The Doppler boosted LISA response to gravitational waves

## Speaker

Tom van der Steen

# 11:45-12:00 Exotic Optical Modes for Thermal Noise Reduction in Metrology

Speaker

Charlotte Bragard

12:30