

# Observational Science Board

Marica Branchesi, Michele Maggiore, Ed Porter  
2nd ET Annual Meeting  
Orsay, 14-16 Nov. 2023



- **Information for newcomers**
  
- **Plan of action for the meeting:**
  - OSB Blue Book discussion
  - OSB division chairs F2F
  - OSB/EIB MMA session
  - OSB Mock Data Challenge

# OSB Mandate



- Investigate the science case for ET
- Produce the ET blue book
- Develop the analysis tools required for science extraction
- Release a series of mock data challenges
- Develop the data analysis platform and computational infrastructure in collaboration with the EIB
- Foster relations with other GW experiments
- Foster relations with the external EM/neutrino communities

- **Fundamental Physics** : Chris van den Broeck ([vdbroeck@nikhef.nl](mailto:vdbroeck@nikhef.nl)), Paolo Pani ([paolo.pani@uniroma1.it](mailto:paolo.pani@uniroma1.it)), Raphael Porto ([rafael.porto@desy.de](mailto:rafael.porto@desy.de))
- **Cosmology** : Archisman Ghosh ([Archisman.Ghosh@UGent.be](mailto:Archisman.Ghosh@UGent.be)), Angelo Ricciardone ([angelo.ricciardone@pd.infn.it](mailto:angelo.ricciardone@pd.infn.it)), Mairi Sakellariadou ([mairi.sakellariadou@kcl.ac.uk](mailto:mairi.sakellariadou@kcl.ac.uk))
- **Population Studies** : Giulia Cusin ([giulia.cusin@unige.ch](mailto:giulia.cusin@unige.ch)), Michela Mapelli ([michela.mapelli@unipd.it](mailto:michela.mapelli@unipd.it)), Antonio Riotto ([Antonio.Riotto@unige.ch](mailto:Antonio.Riotto@unige.ch))
- **Multimessenger observations** : Giancarlo Ghirlanda ([giancarlo.ghirlanda@inaf.it](mailto:giancarlo.ghirlanda@inaf.it)), Stephen Smartt ([s.smartt@qub.ac.uk](mailto:s.smartt@qub.ac.uk)), Susanna Vergani ([susanna.vergani@obspm.fr](mailto:susanna.vergani@obspm.fr))
- **Synergies with other GW observatories** : Monica Colpi ([monica.colpi@unimib.it](mailto:monica.colpi@unimib.it)), Bangalore Sathyaprakash ([bss25@psu.edu](mailto:bss25@psu.edu)), Nicola Tamanini ([nicola.tamanini@l2it.in2p3.fr](mailto:nicola.tamanini@l2it.in2p3.fr)), Samaya Nissanke ([s.m.nissanke@uva.nl](mailto:s.m.nissanke@uva.nl))
- **Nuclear Physics** : Tim Dietrich ([tim.dietrich@uni-potsdam.de](mailto:tim.dietrich@uni-potsdam.de)), Tanja Hinderer ([t.p.hinderer@uu.nl](mailto:t.p.hinderer@uu.nl)), Micaela Oertel ([Micaela.Oertel@obspm.fr](mailto:Micaela.Oertel@obspm.fr))
- **Stellar collapse and isolated neutron stars**: Marie-Anne Bizouard ([marianne.bizouard@oca.eu](mailto:marianne.bizouard@oca.eu)), Enrico Cappellaro ([enrico.cappellaro@inaf.it](mailto:enrico.cappellaro@inaf.it)), Pablo Cerda-Duran ([pablo.cerda@uv.es](mailto:pablo.cerda@uv.es))
- **Waveforms** : Laura Bernard ([Laura.Bernard@obspm.fr](mailto:Laura.Bernard@obspm.fr)), Harald Pfeiffer ([harald.pfeiffer@aei.mpg.de](mailto:harald.pfeiffer@aei.mpg.de)), Patricia Schmidt ([P.Schmidt@bham.ac.uk](mailto:P.Schmidt@bham.ac.uk))
- **Common Tools** : Michal Bejger ([bejger@camk.edu.pl](mailto:bejger@camk.edu.pl)), Ik Siong Heng ([Ik.Heng@glasgow.ac.uk](mailto:Ik.Heng@glasgow.ac.uk)), Andrea Maselli ([andrea.maselli@gssi.it](mailto:andrea.maselli@gssi.it))
- **Data analysis platform** : Chris van den Broeck ([vdbroeck@nikhef.nl](mailto:vdbroeck@nikhef.nl)), Elena Cuoco ([elena.cuoco@sns.it](mailto:elena.cuoco@sns.it)), Tania Regimbau ([tania.regimbau@lapp.in2p3.fr](mailto:tania.regimbau@lapp.in2p3.fr)), John Veitch ([John.Veitch@glasgow.ac.uk](mailto:John.Veitch@glasgow.ac.uk))

# Useful links/information



- OSB internal wiki: <https://wiki.et-gw.eu/OSB/WebHome>
- Public OSB wiki: <https://www.et-gw.eu/index.php/observational-science-board>
- ET-MD: <https://apps.et-gw.eu/etmd>
- OSB publication policy (very light):
  - 1 week circulation to the OSB. Details can be found on the internal wiki

# OSB activities at this meeting



## ● OSB Blue Book

● Tuesday 14h-17h, Auditorium Joliot Curie

● Status update from division chairs

● Zoom: ID - 93962516906, code - 24758245

● Link: <https://ijclab.zoom.us/j/93962516906?pwd=K0dsNWNTVUNiTUNLTFBOa1k4bzJHUT09>

## ● OSB division chairs F2F

● Wednesday 11h10 - 13h, Room 139 (Bat. 200)

● Organisation, Blue Book, etc.

● Zoom: ID - 94459496354, code - 24758245

● Link: <https://ijclab.zoom.us/j/94459496354?pwd=WUZoSmdQVlVqVG5rUzlkN2U3eWliZz09>

## ● EIB/OSB MMA alerts

● Wednesday 14h10 - 16h, Auditorium Joliot Curie (Bat. 100)

● Zoom: ID - 93962516906, code - 24758245

● Link: <https://ijclab.zoom.us/j/93962516906?pwd=K0dsNWNTVUNiTUNLTFBOa1k4bzJHUT09>

# OSB activities at this meeting



## 🎤 OSB Mock Data Challenge

🎤 (EIB session) Wednesday 09h50-10h10, Room 101 (Bat. 200)

🎤 Status update from division chairs

🎤 Zoom: ID - 95158451082, code - 24758245

🎤 Link: <https://ijclab.zoom.us/j/95158451082?pwd=NDBhTUNlU2dPaHpXcFo1dm0zMTk5Zz09>

## 🎤 Mock Data Challenge session

🎤 Thursday 09h - 09h55, Auditorium Pierre Lehmann (Bat. 200)

🎤 Current status, ideas for future challenges, CE-MDC (?)

🎤 Zoom: ID - 94160152602, code - 24758245

🎤 Link: <https://ijclab.zoom.us/j/94160152602?pwd=Zm1PNFpQYzFieG1qT0pnMW0yOEg0dz09>