## WP3 parallel session Context and goals

Conveners:

Marco Landoni (INAF OA Brera)

Paolo Natoli (UNIFE & INFN)

- The use cases for WP3 are not consolidated yet
- Obvious redandancies exist in what will be presented. Significant "pooling" is required.
- One immediate goal of the session is to make these redunancies emerge, to ease the process of trimming down the number of use cases, with full involvement of the participants.
- At the same time, some key inputs are surely missing. We encourage interested groups to provide feedback and ideas
- Little time for discussion today => The conveners will try take minutes on a google doc
  - You are welcome to contribute: editing rights are open
- A longer term goal of this session is to pave the roads for future activities
  - We need to organize telecons (yes, we know we all have too many)
  - We need to establish links with other WPs

The agenda is very dense, please try to stay on time!

Please upload your presentation on the agenda. Ask the conveners if you cannot do it by yourself

## 15:00 → 18:05 Parallel WP3

ZOOM https://cern.zoom.us/j/66525894565?pwd=VIJPU2hpTVJNQ0dvQU9ZTWE5Ujlvdz09

200M https://cem.zoom.us/j/66525694565?pwa=v13F02hp1v3hQ0dvQ0921wE50jlvd209	
Conveners: Marco Landoni (INAF - Istituto Nazionale di Astrofisica) , Paolo Natoli (Istituto Nazionale di Fisica Nucleare)	
15:00	Context and goals of the session  Speakers: Marco Landoni (INAF - Istituto Nazionale di Astrofisica), Paolo Natoli (Istituto Nazionale di Fisica Nucleare)
15:05	INAF activities in WP3 and use cases Speaker: Antonio Stamerra (INFN-Roma and INAF-OAR)
15:25	HPC case studies for the CMB  Speaker: Luca Pagano (Istituto Nazionale di Fisica Nucleare)
15:40	Turbulence everywhere: Atmosphere, Heliosphere, Cosmos Speaker: Leonardo Primavera (UniCal)
16:00	Machine learning techniques for multimessenger and multiwavelength astrophysics ¶  Speakers: Elisabetta Bissaldi (Istituto Nazionale di Fisica Nucleare) , Silvia Raino' (Istituto Nazionale di Fisica Nucleare)
16:15	Landscape and computational challenges for the LISA global fit Speaker: Riccardo Buscicchio (UnIMIB)
16:30	Computing and analysis for gravitational wave searches with LIGO/Virgo/KAGRA data Speaker: Cristiano Palomba (Istituto Nazionale di Fisica Nucleare)
16:40	Transient GW signals without templates Speaker: Edoardo Milotti (Istituto Nazionale di Fisica Nucleare)
16:50	ML based PID (astroparticles) and GW signal detection  Speaker: Massimo Lenti (Istituto Nazionale di Fisica Nucleare)

HPC studies applied to astroparticle/astrophysics and gw theory
Speaker: Achille Nucita (Istituto Nazionale di Fisica Nucleare)

New physics from n-point correlations of large-scale structure, gravitational waves and the cosmic microwave background

Speaker: Alvise Raccanelli (CERN)