



Contribution ID: 31

Type: Invited Talk

## Einstein Telescope, a 3G gravitational wave observatory

*Tuesday, 17 September 2024 14:55 (25 minutes)*

The Einstein Telescope (ET) is the planned third-generation gravitational wave (GW) observatory in Europe, expected to start operating in the late 2030s. It will be an underground and cryogenic GW detector, aiming to push the observation horizon to the primordial high-redshift universe, with huge impact on multimessenger astronomy, cosmology, and fundamental physics.

In this talk I will give an overview of ET in the framework of the 3G GW detectors network, with a focus on the technological and engineering challenges of the project, and the environmental noise characterization of the candidate sites.

**Primary author:** Dr NATICCHIONI, Luca (INFN Roma)

**Presenter:** Dr NATICCHIONI, Luca (INFN Roma)

**Session Classification:** Gravitational Waves

**Track Classification:** Gravitational waves