

ETAP

Einstein Telescope Analysis Portal



ETAP is a cutting-edge platform developed to address the growing demand for open access to gravitational wave (GW) data. As Europe prepares for the next-generation Einstein Telescope (ET), the ETAP project will provide researchers and citizen scientists with an innovative platform and advanced tools to access and analyse the complex data expected from future GW detections, fostering collaborative multi-messenger research and promoting sustainability in scientific computing.



ESCAPE
Astronomy, Nuclear and Particle
Physics

Challenge

The surge in data complexity, combined with the need for cross-disciplinary collaboration in multi-messenger astronomy, presents a significant computational and data integration challenge. Moreover, it has to be ensured these complex datasets fully adhere to FAIR principles.

Solution

The project will build on the ESCAPE VRE to produce ETAP, which will integrate data from multiple RIs and utilise advanced tools. The ESCAPE VRE will be extended to work with multiple Data Lakes, enabling seamless access to (meta)data from multiple RIs to support multi-messenger and GW science.

Scientific Impact

ETAP will empower researchers and citizen scientists to conduct cutting-edge research in GW and multi-messenger science, leveraging the vast potential of the Einstein Telescope.

Partners

University of Geneva