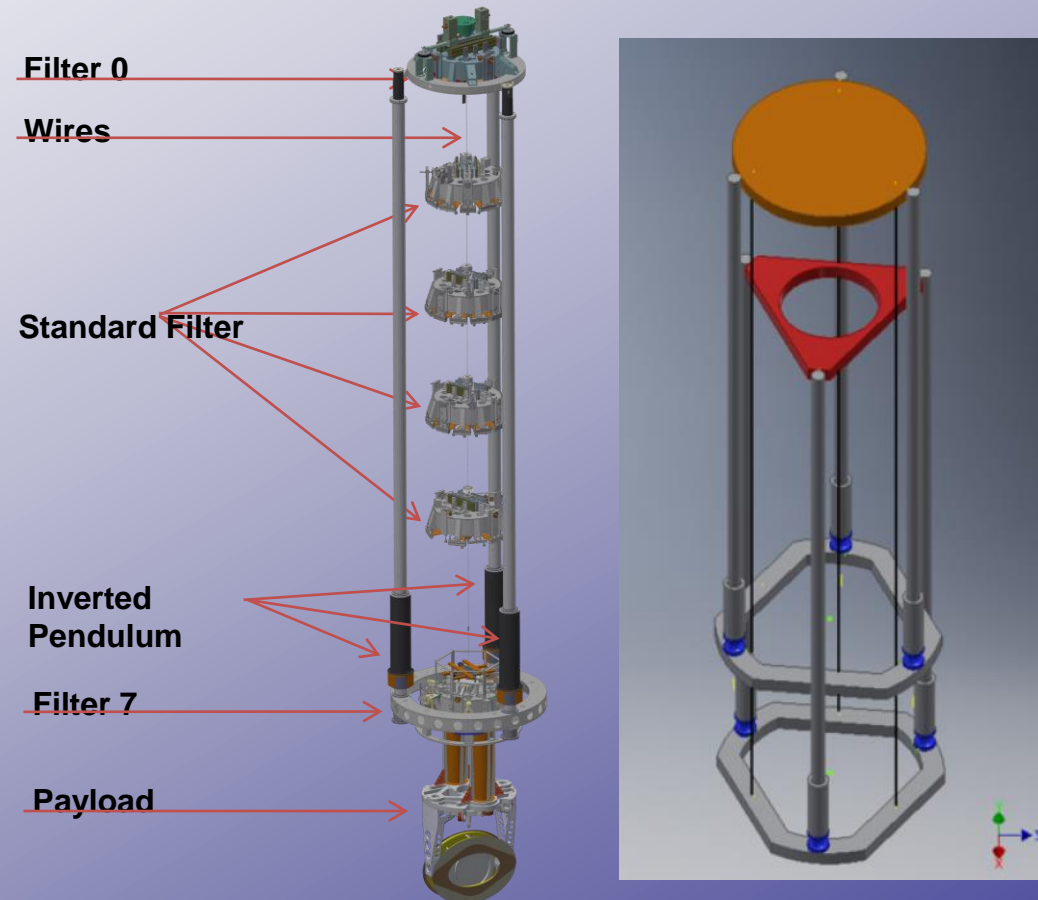
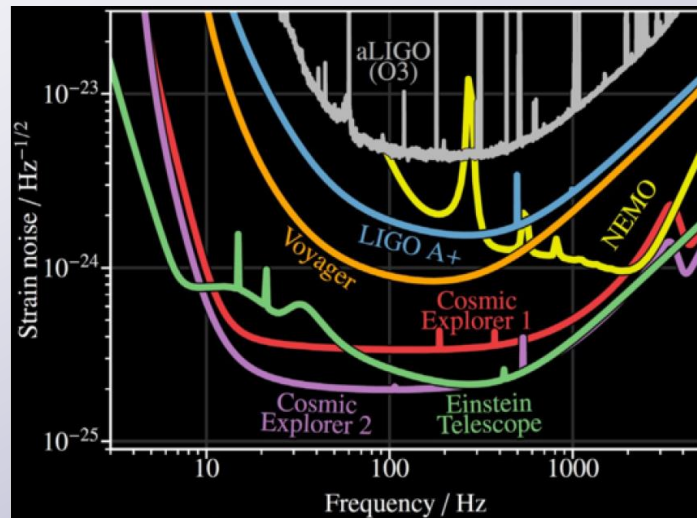


# BHETSA, a seismic isolation system for the test masses of the Einstein Telescope

Black Holes for ET Sardinia ([BHETSA](#)) is a 3-year project funded by the PRIN2020 MIUR call. Its goal is the design of a suspension system that isolates seismically the test masses of the Einstein Telescope at frequencies above 2 Hz with a height of about 10 m, similar to the one of the Virgo Superattenuator (SA). To test the new design a prototype will be constructed, tested and validated.

While based on current VIRGO SA, the mechanical solutions proposed envisaged both an upgrade of the standard filters and of the inverted pendulum pre-isolator.

Achieving detections of **low frequency gravitational waves** is crucial for the science program of the Einstein Telescope



The prototype will be tested in Sardinia at the **SOS Enattos** candidate site for ET

