



Contribution ID: 30

Type: **Poster**

The Archimedes Experiment and the SAR-GRAV laboratory

The Archimedes experiment is devoted to the measurement of the interaction of vacuum fluctuations and gravity through the use of a cryogenic balance to be placed in the underground site of Sos-Enattos, in the SAR-GRAV laboratory. The measurement consists in weighing the condensation energy of stratified type II superconductors, like YBCO, around the transition temperature. The need of a seismically quiet site motivates its construction in SAR-GRAV. In the poster the status of the experiment will be illustrated, together with the required specifications on seismic noise and the final expected sensitivity.

Primary author: CALLONI, Enrico (Dipartimento di Fisica, Università di Napoli Federico II, Napoli, Italy; INFN Sezione di Napoli, Napoli, Italy)

Presenter: CALLONI, Enrico (Dipartimento di Fisica, Università di Napoli Federico II, Napoli, Italy; INFN Sezione di Napoli, Napoli, Italy)

Track Classification: ET technology