

11-14 November 2025
Opatija, Croatia



Contribution ID: 35

Type: **talk**

The status of CAOS laboratory

The CAOS international laboratory (Center for Gravitational Wave and Seismology Applications) of the University of Perugia, in collaboration with INFN and EGO and primarily funded by the ETIC (Einstein Telescope Infrastructure Consortium) project, is mainly designed to develop and test new technologies for the Einstein Telescope. The facility will focus on the development and fine-tuning of new 12-meter seismic attenuators, low-noise automatic control systems, and payload integration techniques, supported by innovative 15-meter truncated-cone vacuum chambers. CAOS aims to become a reference hub for scientific collaboration and a platform for developing new ideas. This presentation will provide an update to the scientific community on the progress of civil works, seismic attenuators, vacuum chambers, and laboratory instrumentation.

Authors: GENNAI, Alberto (Istituto Nazionale di Fisica Nucleare); PARISI, Alessandro (Università di Perugia); Dr STOLLO, Alessio (Uni PG); Dr PAOLI, Andrea (EGO); Prof. GRADO, Aniello (Uni PG); PASQUALETTI, Antonio; FABOZZI, Carlo; MAJORANA, Ettore; TRAVASSO, Flavio; BIANCHI, Francesco; FRASCONI, Franco (INFN Pisa); CAPOCCIA, Gabriele (INFN-PG); VOCCA, Helios (Università di Perugia); HARMS, Jan; Dr LUCCHESI, Leonardo (INFN Pisa); Dr ORSINI, Leonardo (INFN Pisa); NATICCHIONI, Luca; BAWAJ, Mateusz (University of Perugia); BALDICCHI, Nicolo (Università degli studi di Perugia); CHESSA, Piero (University of Perugia); Dr ROMBOLI, Riccardo (EGO); TRAVAGLINI, Riccardo (INFN - Sezione di Bologna); Prof. TOMARU, Takayuki (NAOJ); Dr CHIARUSI, Tommaso (INFN - Sezione di Bologna)

Presenter: CAPOCCIA, Gabriele (INFN-PG)

Session Classification: Instrument Science (ISB)

Track Classification: ISB: ISB - Other