



Contribution ID: 65

Type: talk

Locking of Central Interferometer of Advanced Virgo+

Monday, 17 May 2021 11:00 (20 minutes)

The target sensitivity of Advanced Virgo for O4 is about 90-120 Mpc for the BNS range. To achieve this, several hardware upgrades are under process. One of the most relevant concerns the installation of the Signal Recycling Mirror. I will describe the procedure followed for locking the Dual Recycled Michelson Interferometer along with the tuning of CO₂ central heating, which assists the lock of DRMI by compensating for the (cold) optical aberrations.

Primary author: GIRI, Priyanka (Istituto Nazionale di Fisica Nucleare)

Co-authors: VALENTINI, Michele (Virgo (University of Trento)); MANTOVANI, Maddalena (EGO); BOLDRINI, Mattia (Istituto Nazionale di Fisica Nucleare); BERSANETTI, Diego (GE); CASANUEVA, Julia; TAPIA, Enzo; MAGGIORE, Riccardo; Mr RUGGI, Paolo (EGO); ROCCHI, Alessio (ROMA2); TARANTO, Claudia (INFN Roma2); CESARINI, Elisabetta (ROMA2); LORENZINI, Matteo (GSSI); CIFALDI, Maria (Istituto Nazionale di Fisica Nucleare); LUMACA, Diana (R); NARDECCHIA, Ilaria (ROMA2); FAFONE, Viviana (ROMA2); PINTO, Manuel

Presenter: GIRI, Priyanka (Istituto Nazionale di Fisica Nucleare)

Session Classification: Recorded talks: Experience From Current Detectors

Track Classification: Advanced detectors: Experience from current detectors