

The MAGO cavity and prospects for HFGW searches

Monday, 4 December 2023 10:15 (25 minutes)

The former MAGO collaboration, led by INFN Genoa, developed in the past SRF cavities in order to perform R&D with the aim to search for gravitational waves. In a collaborative effort, DESY/U.Hamburg and Fermilab continues this R&D programme. Since July the MAGO cavity is at DESY for measurements and matching simulations to characterise the cavity before surface treatment and cold measurements at Fermilab. The aim is to use this cavity for a first GW search and to develop new cavities and the necessary dedicated cryostat and suspension system for improved GW measurements in the future.

Presenter: PETERS, Krisztian (Deutsches Elektronen-Synchrotron (DE))

Session Classification: EM-GW detectors