



Contribution ID: 53

Type: poster

6D inertial seismic isolation

Wednesday, 19 May 2021 16:13 (1 minute)

Tilt coupling is one of the limiting factors for the low-frequency sensitivity of gravitational-wave detectors. Implementing inertial seismic isolation of the suspension platform in all 6 DoF makes it quiet in all degrees of freedom simultaneously and minimises coupling of all DoF to interferometer length. In this poster, we discuss the potential improvement in the sensitivity of GW detectors and present the current status of the 6D project.

Primary author: PROKHOROV, Leonid (Institute for Gravitational Wave Astronomy, The University of Birmingham)

Co-authors: MOW-LOWRY, Conor (University of Birmingham); MARTYNOV, Denis (University of Birmingham); COOPER, Sam (University of Birmingham); Mr UBHI, Amit (University of Birmingham); DI FRONZO, Chiara; VAN DONGEN, Jesse (Nikhef); Ms MITCHELL, Alexandra

Presenter: PROKHOROV, Leonid (Institute for Gravitational Wave Astronomy, The University of Birmingham)

Session Classification: Poster session 1

Track Classification: Workshops: Low frequency workshop