



Contribution ID: 71

Type: poster

Angular control of Advanced Virgo suspended benches

Tuesday, 24 May 2016 18:00 (0 minutes)

Most of the Advanced Virgo light sensing devices are located on 5 in vacuum suspended benches. The benches are suspended from a triple stage mSAS suspension, and the angular degrees of freedom are sensed and controlled from the ground using LVDTs and coil-magnet actuators. The angular control has stringent requirements 30 nrad rms and $3e-15$ rad/rtHz above 10 Hz. After introducing the system design, we present the first in air results of controlling the fully integrated system and striving to achieve these requirements.

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Session Classification: Poster Session