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Interferometric Suspension and Inertial Sensors

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To detect gravitational waves at frequencies below 30Hz the low-frequency sensitivity of the current observatories must be improved and, in the case of LIGO, this is caused by control noise from a mixture of sources. To facilitate this improvement in sensitivity, new seismic and suspension sensors are required. This poster outlines the development of these new sensors that can be applied to both the seismic platforms and suspensions and highlights the potential improvement they can bring to current detectors.

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