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A 6D INTERFEROMETRIC INERTIAL ISOLATION SYSTEM

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Ground-based detectors are strongly limited at low frequencies [5 - 30 Hz]. Unlocking these frequencies requires the development of new technologies, and will allow terrestrial detection of new, and more distant sources. Additionally, source localisation and forewarning will provide opportunities for spectacular multi-messenger observations.
We propose a new kind of inertial isolation system that can overcome these limitations by a combinations of materials, interferometry and design.

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