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New OSEM results using a displacement-doubling prism-based flag

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The suspension systems for future Gravitational Wave (GW) detectors require an improved level of immunity to sources of mechanical perturbation of their suspended test-masses. The displacement sensors used to mitigate such perturbations (OSEMs) need to be upgraded for improving their performance in frequency range < 1 Hz. The conceptual design of displacement shadow sensors utilising a 'displacement doubling prism'[1] is presented.

Reference: 1. N.A. Lockerbie, Nucl. Instrum. Meth. A, 741 (2014) 192–195.

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