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Calibration of the Gravitational Waves detector Virgo using a Newtonian Calibrator (NCal) for the upcoming observing run O4

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Since the first direct evidence of gravitational waves in 2015 the LIGO and Virgo collaboration have provided important results for astrophysics, cosmology or fundamental physics. The upgrades of the detectors through the years has increased the sensitivity and the range of detection, challenging their calibration. This talk reports the latest updates for a calibration method based on the local variation of the gravitational field using Newtonian Calibrators (NCal) on the Virgo detector for the upcoming observing run O4.

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