

The Moon: the new frontier for Gravitational Waves astrophysics with LGWA

Monday, September 26, 2022 6:00 PM (20 minutes)

The Lunar Gravitational-Wave Antenna (LGWA) is a proposed detector which aims at revealing gravitational waves using the Moon as a detector and an array of seismic sensors as Moon-read-out. The concept is the same as that used for the gravitational waves bar detectors, which represent the first human attempt of measuring gravitational waves. With LGWA we will be sensitive in the deci-Hz frequency band, thus bridging a gap between current (and future) terrestrial gravitational wave detectors and space-based ones. In this talk we will discuss the LGWA project, the scientific results it can deliver along with the technologies needed for such an enterprise

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