

## Estimation of Acoustic Newtonian Noise for Underground GW observatorie

*Tuesday, 7 November 2023 17:00 (1 hour)*

Newtonian noise (or gravity gradient noise) is one of the principal noises for ground-based GW detectors, especially below 10 Hz. In this study, we estimate the NN caused by the acoustic field inside an underground facility for the KAGRA and further detectors based on the infrasound sensors' data at the KAGRA site.

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**Session Classification:** Poster Session