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## Tidal Love numbers for environmental black-hole mergers

*Wednesday, 29 March 2023 10:00 (20 minutes)*

Tidal Love numbers describe the deformability of compact objects under the presence of external tidal perturbations, and are found to be exactly zero for black holes. We discuss about the scenario of black holes dressed with an ultralight scalar field, addressing their detectability at future gravitational wave experiments.

**Presenter:** DE LUCA, Valerio

**Session Classification:** Morning session-1