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Type: **Gong Show Talk (5 mins)**

Listening for dark matter: Macroscopic dark matter searches with acoustic neutrino detectors

Thursday, December 14, 2023 2:10 PM (5 minutes)

Macroscopic Dark Matter (or Macros) are a general class of dark matter models with masses $gtrsim M_{pl}$ (often parameterised in grams rather than GeV) and geometric cross sections σ_χ . Due to their very low number density, the range of macro cross sections is relatively unconstrained by conventional DM detectors, and instead require novel detection methods with high exposure. Here we consider the constraining power of proposed high exposure acoustic neutrino experiments to macroscopic dark matter.

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Author: CLEAVER, Damon (King's College London)

Co-author: MCCABE, Christopher (King's College London)

Presenter: CLEAVER, Damon (King's College London)

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