



ID de Contribution: 33

Type: Non spécifié

## **BINGO, towards the meV level of the neutrino mass scale**

*lundi 13 février 2023 17:30 (20 minutes)*

Neutrinoless double-beta decay is a hypothetic nuclear process which, in case of its observation, would provide important information about the nature of neutrino and will demonstrate the lepton number violation. Scintillation bolometers are one of the most promising technology for  $0\nu 2\beta$  decay search: low-temperature particle detector in joint with a cryogenic light detector. BINGO (Bi-Isotope  $0\nu 2\beta$  next-generation observatory) is a project which proposes several innovative technologies for future tone-scale bolometric experiments aimed at a dramatical background reduction in the region of interest thereby increasing the sensitivity to  $0\nu 2\beta$ . Experimental results obtained both above and underground will be presented.

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**Classification de Session:** Experiments