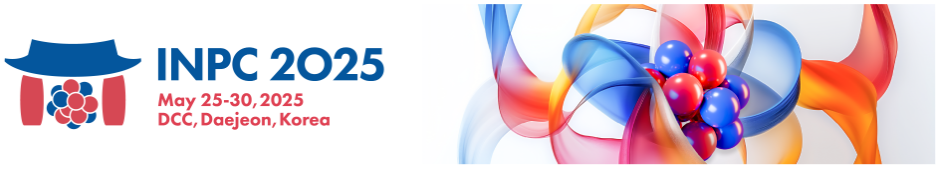

Contribution ID: **747** Type: **Plenary Talk (Invitation Only)**

Probing the nature of neutrino

Tuesday, 27 May 2025 15:00 (30 minutes)

The nuclear beta decay revealed the existence of neutrino more than eight decades ago, but the neutrino still continues to be a puzzle waiting to be unravelled. The mass and nature of neutrinos play an important role in physics beyond the standard model. At present, neutrinoless double beta decay (NDBD) is perhaps the only experiment that can tell us whether or not the neutrino is its own antiparticle. Given the significance of the NDBD, there is a widespread interest worldwide employing a variety of novel techniques. This talk will present a brief overview of ongoing and proposed NDBD experiments and will highlight Indian efforts towards the feasibility study of search for NDBD in 124Sn.

Primary author: Prof. NANAL, vandana (Tata Institute of Fundamental Research)

Presenter: Prof. NANAL, vandana (Tata Institute of Fundamental Research)

Session Classification: Plenary Session

Track Classification: Nuclear Structure