



Contribution ID: 2

Type: **Plenary Talk**

Techniques to reach the Normal Hierarchy of Double Beta Decay using liquid Xenon

Tuesday, September 30, 2025 3:30 PM (30 minutes)

The scientific priority of searching for neutrinoless double beta decay with sensitivity to the Normal Hierarchy is well known. In this talk I will point out how a liquid xenon detector might be designed to reach the required sensitivity by implementing a number of techniques to control the backgrounds. The concept would allow almost all of the xenon to be fiducial, leading to a modular approach to the detector, allowing several laboratories to share the project.

Primary author: SINCLAIR, David (Carleton University)

Presenter: SINCLAIR, David (Carleton University)