



Contribution ID: 229

Type: **Poster**

Jamin Rager (UNC): An Update on the Bosonic Dark Matter Search with the MAJORANA DEMONSTRATOR

Wednesday, 21 February 2018 18:55 (1 minute)

The MAJORANA DEMONSTRATOR is a neutrinoless double-beta decay experiment operating at the 4850' level of the Sanford Underground Research Facility that uses modular arrays of enriched, ^{76}Ge detectors in an ultra-low background environment. The DEMONSTRATOR has a low energy program that is capable of probing a variety of exotic keV-scale physics; it has recently produced limits on generic bosonic dark matter that come in two weakly coupling varieties, vector and pseudoscalar (axion-like). These particles would manifest as low energy peaks at their rest mass in the detector spectrum. I describe recent efforts in the MAJORANA DEMONSTRATOR's ongoing bosonic dark matter campaign, specifically improving the limits on the relevant coupling parameters.

Primary author: RAGER, Jamin (University of North Carolina - Chapel Hill)

Presenter: RAGER, Jamin (University of North Carolina - Chapel Hill)

Session Classification: Poster Session