



Contribution ID: 442

Type: **Presentation**

Dark Matter Search Results from the PICO-60 C3F8 Bubble Chamber

Monday, 31 July 2017 11:15 (15 minutes)

The PICO-60 dark matter detector has recently concluded its first run with a C3F8 target, producing a new world-leading limit on WIMP-proton spin-dependent interactions, a factor of 17 stronger than PICO's previous leading result. This result is obtained from a blind 30 live-day run that contained zero WIMP candidate events and re-affirms the dominance of the bubble chamber technology in searching for this type of interaction. The absence of events confirms that the bubble chamber technology is background-free and ready for future ton-scale dark matter detectors.

Primary author: Dr HARRIS, Orin (NEIU)

Presenter: Dr HARRIS, Orin (NEIU)

Session Classification: Dark Matter

Track Classification: Dark Matter