UCLA Dark Matter 2018



Contribution ID: 118 Type: Talk

Reina Maruyama (Yale U.): COSINE-100

Friday, 23 February 2018 11:45 (15 minutes)

Astrophysical observations give overwhelming evidence for the existence of dark matter. While the DAMA collaboration asserts that they observe a dark matter-induced annual modulation signal in their NaI(Tl)-based detectors, their signal has not been confirmed. DAMA's observations are inconsistent with those from other direct detection dark matter experiments under most assumptions of dark matter. COSINE-100 has been taking physics data since September 2016 at Yangyang Underground Laboratory. I will describe the COSINE-100 experiment, the current status and prospect for low-background NaI(Tl)-based dark matter experiments, and our strategy for resolving the current stalemate in the field.

Presenter: MARUYAMA, Reina

Session Classification: Session 13