

Background assessment and performance of the COSINE-100 detector

Friday, July 6, 2018 8:15 PM (15 minutes)

COSINE-100 is a dark matter direct dark matter search experiment that uses an array of scintillating NaI(Tl) crystals as a target/detector. The experiment started taking data in September 2016 and has been running stably since that time. We have fit the measured energy spectra in the NaI(Tl) crystals with a MC model that contains a variety of background components. The background sources will be discussed and preliminary results from a dark matter search analysis will be presented.

Primary author: Mr ADHIKARI, Pushparaj (Sejong University)

Presenter: Mr ADHIKARI, Pushparaj (Sejong University)

Session Classification: POSTER

Track Classification: Dark Matter Detection