

ISS-CREAM detector performance and tracking algorithms

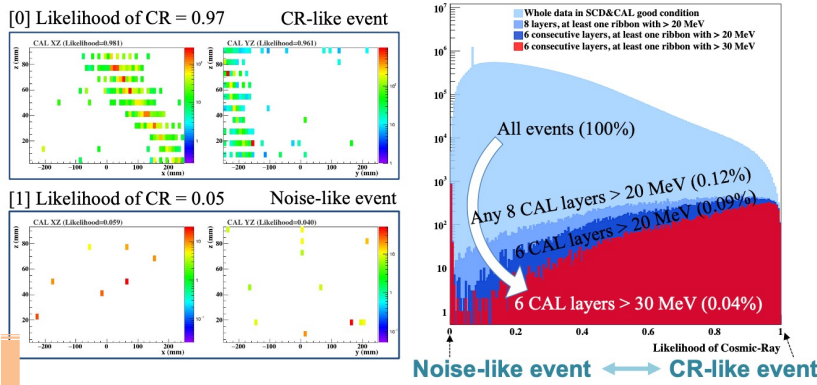
Kenichi Sakai NASA/GSFC/CRESST/UMBC for ICDA collaboration [Poster 1051]

One difficulty of analysis in ISS-CREAM data comes from the Calorimeter (CAL).

Sanity check of quality cut

Housekeeping data, periodic calibration trigger data of 0.5 Hz, trigger rate were investigated. Quality cut was developed.

About 0.1% science trigger events have useful information in CAL



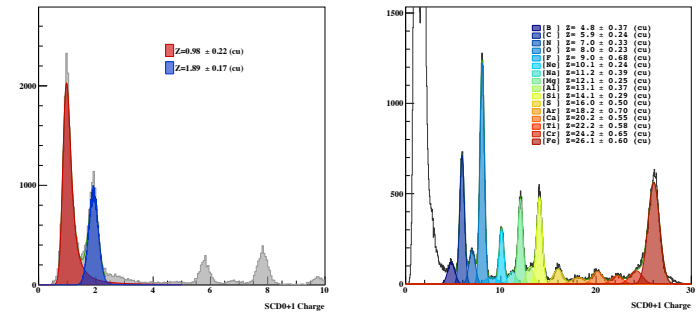
Approach highlights poorly understood aspects of the CAL performance.

- Shower profile study by using machine learning. (M. Yu et al., Poster 476)
- Absolute energy calibration by using BSD signal. (Y. Chen et al., Poster 866)

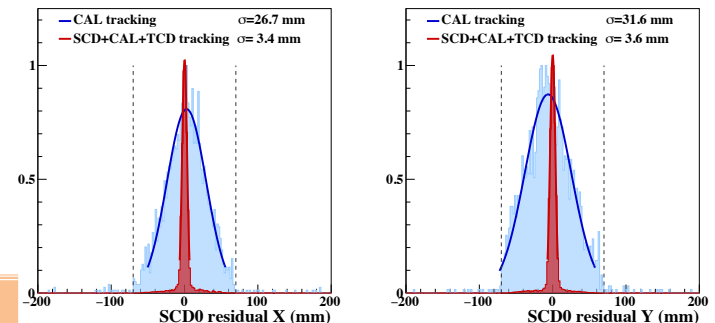
In that case, how about analyzing the data without relying on CAL information?

Detector performance with new SCD/TCD/CAL-based tracking

SCD charge resolution



Position resolution



Check scientific results.

- Calculate preliminary fluxes (S. L. Nutter et al., Poster 696)

