



Contribution ID: 353

Type: **Review/Tutorial**

Large calorimeters

Tuesday, July 23, 2019 12:15 PM (30 minutes)

Large low temperature detectors are widely used in nuclear and particle physics, from Dark Matter Searches to Double Beta Decay and, more generally, in rare event searches.

The ability to construct large calorimeters from a wide variety of materials is one of the important advantages of this technology.

The possibility - in addition to the heat- to use a second readout channel (scintillation light or ionization charge) in order to disentangle the signal over the background is nowadays deeply exploited by most of the experiments.

This talk will address the main practical challenges related to these detectors, with a summary of the main recent achievements and a prospective for the future.

Less than 5 years of experience since completion of Ph.D

N

Student (Ph.D., M.Sc. or B.Sc.)

N

Primary author: Dr PIRRO, Stefano (INFN - Laboratori Nazionali del Gran Sasso)

Presenter: Dr PIRRO, Stefano (INFN - Laboratori Nazionali del Gran Sasso)

Session Classification: Orals LM 001

Track Classification: Low Temperature Detector Development and Physics