

A novel low-energy calibration method for light Dark Matter searches and CEvNS cryogenic experiments: the CRACK project

Wednesday, 10 July 2024 17:10 (20 minutes)

Light dark matter searches and CEvNS experiments require thresholds of a few eVs, which pose the crucial challenge of calibrating such low energies. In this poster we present the status of the CRACK project, which develops an innovative method to calibrate cryogenic detectors in the range of eV without adding any permanent background to the experiments. It is based on a miniaturized particle-induced X-ray emission (PIXE) system with short half-life alpha emitters for low-threshold rare events cryogenic experiments, solving a problem faced by many other cryogenic experiments like CRESST.

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Session Classification: Poster session

Track Classification: Poster session: Direct detection