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Directional Dark Matter Search with Nuclear Emulsion

Thursday 11 July 2019 17:35 (20 minutes)

The NEWSdm experiment, based on nuclear emulsions, is proposed to measure the direction of WIMP-induced nuclear recoils. We discuss the potentiality, both in terms of exclusion limits and potential discovery, of a directional experiment based on the use of a solid target made by newly developed nuclear emulsions and read-out systems reaching sub-micrometric resolution. We also report results of the test exposure conducted in Gran Sasso last year.

Authors: GULER, Murat Ali (Middle East Technical University (TR)); NEWSDM COLLABORATION

Presenter: GALATI, Giuliana

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