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Characterization of neutron fluxes in underground laboratories with HENSA

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HENSA is a high efficiency neutron spectrometer based on the same principle than Bonner sphere systems. The detector has been used for years in the Canfranc Underground Laboratory (LSC) in order to assess the neutron flux underground. In particular, for more than 3 years HENSA has been being used in hall B of the LSC with obejective to characterize the neutron flux that could affect the ANAIS-112 dark-matter experiment.

In this work, last results from the HENSA campaign at LSC will be discussed, including the temporal evolution and energy spectra. In addition, the status of the recently started HENSA collaboration at the Gran Sasso National Laboratory (LNGS) will be shown.

Abstract

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