

Solar neutron event recorded by muon telescope Mexico on november 4, 2003

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Abstract:

In association with the X28 solar flare on November 4, 2003, the muon telescope Mexico observed an 8.0σ enhancement of the counting rate between 19:59 and 20:05 UT. Based on numerical simulation, we found that the entry of a high energy solar neutron flux, with energy range from 0.2 to 2 GeV, is capable of producing muon flux that reach the atmospheric depth of Mexico City.

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