



Contribution ID: 25

Type: poster

Solar neutron telescope yield function for solar neutrons and recalculated attenuation length in the atmosphere for neutrons: new computations and applications

Tuesday, 6 September 2016 16:30 (1h 45m)

Computed yield functions of each of solar neutron telescopes in the SNT- network for solar neutrons is presented. The computations of cascade in the atmosphere were made by Monte Carlo using the GEANT4-based PLANETOCOSMICS tool. The yield function was validated against the measured data for solar neutron event of 24 May 1990.

Recalculated attenuation length in the atmosphere for neutrons is presented.

In this paper we provide an approach based on new computation about the yield function of SNT- network to solar neutrons and recalculated attenuation length for neutrons in the atmosphere.

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Session Classification: Poster