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cosmic rays in the Earth's atmosphere

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Primary particles of cosmic rays originate in outer space and when they reach the Earth, they cause a series of nuclear reactions with the molecules and particles presented in the Earth's atmosphere and therefore, lead to the creation of many secondary particles in the form of extensive air showers. By the increase in altitude, the layer of the protective atmosphere being thinner and therefore, exposure to cosmic radiation becomes more important. Thus, calculation of the flux of the cosmic rays in the atmosphere is very important for the evaluation of the received dose. The purpose of this work is to discuss the impact of cosmic rays in the Earth's atmosphere using the latest experimental data and the most recent version of the EXPACS code.

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Classification par session : Poster session and coffee-buffet

Thématiques affectées : Particle physics: astroparticle physics