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Nuclear Cross Sections for Cosmic Rays Astrophysics Theory and Experiments

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Measurement of nuclear cross section are crucial for astroparticle physics, both for the development of high-accuracy models, and for the understanding of the normalization of nuclei spectra for experimental measurements. For theory the most relevant cross section of nuclei incident over H and He (principal components of the interstellar medium), while for experiments are needed cross section for nuclei incident on passive and active detector material such as C or Al. Given the availability of high energy nuclei beams at the CERN SPS, used since long time for testing of cosmic ray experiments that operate in space, a program for measurement of cross section can be envisioned that can contribute to both fields.

Eligibility for "Best presentation for young researcher" prize

No

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