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Measurement of the boron and carbon fluxes with the PAMELA experiment

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PAMELA is a satellite-borne experiment, aimed at precision measurements of the charged light component of the cosmic-ray spectrum. It consists of a magnetic spectrometer, a time-of-flight system, an electromagnetic calorimeter, an anticoincidence system and a neutron detector. Recently, the PAMELA collaboration has finalized the measurement of the absolute fluxes of boron and carbon and of the B/C ratio. The B/C plays a central role in galactic propagation studies in order to derive the injection spectra at sources (both astrophysical and exotic) from measurements at Earth. The data analysis techniques and the final results will be presented.

Primary author: MORI, Nicola (Universita e INFN (IT))

Presenter: MORI, Nicola (Universita e INFN (IT))

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