

Abstract number: S4-151

4. High energy cosmic rays (HE-CR I)

PAMELA measurements of the boron and carbon spectra

Mori, Nicola¹

¹University of Florence and INFN Florence

The satellite-borne PAMELA experiment is 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 with a tail catcher scintillatin layer, an anticoincidence system and a neutron detector. The PAMELA collaboration has finalized the measurement of the absolute fluxes of boron and carbon and of the B/C ratio, which 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.