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

The high energy electron spectrum measurements with the PAMELA calorimeter

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We present a new measurement of the cosmic ray electron-positron spectrum by the PAMELA experiment with two methods. The one method for electron-proton separation uses the sampling electromagnetic calorimeter (the energy range up to 1.5 TeV) and the second one in addition involves the neutron detector (the energy range up to 3 TeV). The obtained statistics for the period 2006-2013 with a special trigger of a bottom scintillation detector extending the PAMELA observational energy range based on the magnetic spectrometer measurements.