

ABSOLUTE RIGIDITY SPECTRA OF PROTONS AND HELIUM FROM 16 TO 250 GV

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The HEAT-e+/- magnet spectrometer was used in two balloon flights to measure the intensities of cosmic-ray electrons and positrons. However, this instrument also collected a large sample of protons and helium nuclei. We report here the rigidity spectra for these two species up to about 250 GV, and we compare our results with those of other recent experiments. Above about 50 GV, the rigidity spectrum of helium appears to be slightly harder than that of protons.