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Positron fraction, electron and positron spectra measured by AMS02

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A precise measurement by AMS02 of the electron spectrum up to 700 GeV and of the positron spectrum and positron fraction in primary cosmic rays up 500 GeV will be presented. In this contribution, we will review the analysis performed to determine the individual fluxes that for the first time have been extended to such high energies. The combined measurement of the cosmic-ray electron and positron energy spectra and fraction provide a unique tool to improve our understanding of the production, acceleration and propagation mechanism of cosmic rays.

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