

The cosmic-ray electron spectrum measured with H.E.S.S.

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Abstract. Due to their strong radiative losses, very-high-energy (VHE) cosmic-ray electrons carry unique information on local accelerators. However, their spectrum is very steep with low fluxes and an enormous background of hadronic cosmic rays. This makes the measurement of VHE cosmic-ray electrons intrinsically difficult. The High Energy Stereoscopic System (H.E.S.S.) has performed the first ground-based cosmic-ray electron measurement and thereby extended the measured range of the spectrum to several TeV. Here we present an extension of the H.E.S.S. spectrum towards lower energies, thereby yielding a larger overlap with recent ATIC and FERMI measurements.

Keywords: cosmic-ray electrons, H.E.S.S.

An extended discussion is available at arXiv:0905.0105v1 [astro-ph.HE].