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The chemical composition of galactic cosmic rays during solar minimum of solar cycle 20/21 - Helios E6 results

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Helios 1 and 2 were launched in December 1974 and January 1976, respectively. They both explored the inner heliosphere to distances of less than 0.3 AU from the Sun. The University of Kiel experiment on board the solar probe Helios measured high energy charged cosmic ray particles of solar, planetary and galactic origin. The cosmic ray telescope consists out of five semiconductor detectors, one Cerenkov and one scintillation counter. Electrons with energies between 0.3 and 4 MeV, protons and heavier nuclei up to neon with energies of more than 1.3 MeV/nucleon can be separated. Here we present the chemical composition of galactic cosmic rays during the minimum period of solar cycle 20 and 21 from launch in 1974 to the end of 1977.

Collaboration

– not specified –

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