

SOHO/ERNE Measurements on Galactic Cosmic Rays During the Solar Cycle 23

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Particle instrument ERNE (Energetic and Relativistic Nuclei and Electron experiment) on-board the SOHO spacecraft was launched on December 1995. Both of ERNE's particle telescopes have been operational since the beginning of 1996 to present excluding the time period SOHO was lost in 1998, together covering energy range from a few MeV/nucleon to few hundreds of MeV/nucleon. Using these measurements we have studied the evolution of Galactic Cosmic Ray fluxes and elemental composition during the Solar Cycle 23. The results presented here cover the period from the beginning of Solar Cycle 23 through the middle of 2003. To avoid contamination by solar energetic particles only quiet-time data was used for analysis.

