

Solar Energetic Particles (SEP), Solar Modulation and Space Radiation: New Opportunities in the AMS-02 Era #2

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COMPARING SPACE RADIATION GCR MODELS WITH AMS DATA

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The Alpha Magnetic Spectrometer (AMS) onboard the International Space Station has recently made high precision measurements of the hydrogen and helium spectra from an energy of several hundred MeV/n up to the very high energy TeV/n region. Recent studies of space radiation transport through realistic spacecraft shielding scenarios have emphasized the importance of high energy hydrogen and helium contributions to the radiation effective dose received by astronauts on deep space missions. The recent AMS measurements are therefore relevant to space radiation studies. A variety of galactic cosmic ray (GCR) models currently being used for space radiation studies are compared to the AMS data.

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