

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

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Neutron monitors for solar modulation studies: phi time series

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The level of solar modulation ϕ at different times (related to the solar activity) is a central question of solar and galactic cosmic-ray physics. We detail a procedure to obtain a reference time series from neutron monitor data. We obtain an unbiased and accurate reconstruction at a precision of 10%. Reconstructed time series from the 50's are compared to the previous time-series of Usoskin et al., and to ϕ values extracted from direct CR flux experiments. An on-line application is available at <http://lpsc.in2p3.fr/crdb> to retrieve ϕ values from any period.

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