



Solar Neutrons and Related Phenomena: 365 (Astrophysics and Space Science Library)

Lev Dorman

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Short Historical Overview In the 1940s, two phenomena in the field of cosmic rays (CR) forced scientists to think that the Sun is a powerful source of high-energy particles. One of these was discovered because of the daily solar variation of CR, which the maximum number of CR observed near noon (referring to the existence of continuous flux of CR from the direction of the Sun); this became the experimental basis of the theory that CR's originate from the Sun (or, for that matter, from within the solar system) (Alfvén 1954). The second phenomenon was discovered when large fluxes of high energy particles were detected from several solar flares, or solar CR. These are the - called ground level events (GLE), and were first observed by ionization chambers shielded by 10 cm Pb (and detected mainly from the secondary muon-component CR that they caused) during the events of the 28th of February 1942, the 7th of March 1942, the 25th of July 1946, and the 19th of November 1949. The biggest such event was detected on the 23rd of February 1956 (see the detailed description in Chapters X and XI of Dorman, M1957). The first phenomenon was investigated in detail in Dorman (M1957), by first correcting experimental data on muon temperature effects and then by using coupling functions to determine the change in particle energy caused by the solar-diurnal CR variation.

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