

STUDY OF PITCH ANGLE DISTRIBUTION DURING A GEOMAGNETIC STORM

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The equation of pitch angle diffusion is offered, which also allows to model change of pitch angle distribution from time. Two examples are presented.

The first example is evolution of pitch angle distribution of protons during a typical moderate magnetic storm. The second example is evolution of pitch angle distribution of protons during the 2 - 7 May 1998 storm.

The received results are compared among themselves and to results of other works.

magnetic storm, radiation belt, proton flux

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