

Method of tritium instrument spectrum reconstruction in the PAMELA experiment

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The development of tritium identification methods in the PAMELA experiment are discussed in this work. Particle magnetic rigidity, velocity and energy losses in time-of-flight and magnetic spectrometer detectors were used for the tritium identification. Here we discuss the method of separation of tritium on the background of other particles. Criteria for selection of tritium nuclei in the range of the magnetic rigidities from 0.5 to 3.0 GV were built and the tritium instrument spectrum for the same rigidity range was constructed. Key words: cosmic radiation, tritium, selection criteria.

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Primary author(s) : Mr. KOLDOBSKIY, Sergey (NRNU MEPhI)

Co-author(s) : VALIEVA, Alina (National Research Nuclear University MEPhI)

Presenter(s) : VALIEVA, Alina (National Research Nuclear University MEPhI)

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