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Rates of Argon-37 in Natural Soils

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Knowledge about the natural background of xenon isotopes and Ar-37 in the top few meters of the soil column is crucial for the assessment of measurement of those isotopes in the course of an on-site inspection. There are many factors that control the Ar-37 concentration in soil air. Production and gas transport mechanisms have previously been investigated but less attention was put on the depth dependency of Ar-37 emanation. Irradiation experiments on natural soil samples have revealed changes of this important parameter by almost an order of magnitude over a depth range of 5 meters.

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Promotional text

The contribution presents results from neutron irradiation experiments that are crucial for on-site inspection.

Oral preference format

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