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A nuclear emulsion detectors for the muonography of underground structure of Holy Dormition Pskov-Caves Monastery

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Methods for visualizing the structure of large, up to kilometer-sized objects based on recording the degree of absorption of atmospheric muons, which are called muonography, use the abundant natural flux of muons resulting from the interaction of cosmic rays in the atmosphere. In recent years, there has been an active development of muonography in various innovative interdisciplinary approaches to the study of the internal structure of natural or artificial structures, the establishment of synergy between elementary particle physics and archeology. The paper presents the first results of a study of a unique underground structure of the Holy Dormition Pskov-Caves Monastery with a long history.

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