

Study of Ultra-High-Energy Cosmic Rays from space with K-EUSO detector: status and perspectives

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KLYPVE/K-EUSO is a detector designed to detect and study Ultra-High-Energy Cosmic Rays (UHECR) from space. It is Russian mission to be located on the International Space Station. It consists of a 3.6m diameter mirror which reflects UV light from UHECR on a Fresnel lens, in turn focusing the signal on a 1.4m focal surface. The focal surface is made up of 1872, 64 channel Hamamatsu PMTs for a total of about 120kchannels. The Fresnel lens and the PMTs of the Focal surface will be provided by the Japanese part of the collaboration, with electronics and other parts built in Europe and other countries. In this presentation we will discuss the status of the mission in light also of the results of the ground- and balloon-based precursors.

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