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Lunar Space Missions for Observation of Ultrahigh-Energy Cosmic Rays and Neutrinos

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Two stages of a lunar experiment with the regolith as a target for the interaction of ultrahigh-energy cosmic rays and neutrinos are described. The first stage deals with the LORD experiment within the framework of the Luna-Glob space mission scheduled for the nearest future. The current status of the LORD-instrumentation development is discussed. The aperture of the lunar orbital radio detector exceeds all existing ground-based arrays. Successful realization of the LORD experiment will make it possible to start the second stage of the program. Multi-satellite lunar orbital systems are proposed to increase the measurement statistics and accuracy.

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