



Graduate Physics Seminar
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University of Nova Gorica, Ajdovščina site
Auditorium

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Physics with Scaler Mode of the Pierre Auger Observatory

Abstract

The Pierre Auger Observatory is the largest observatory dedicated to study ultra-high energy cosmic rays (UHECRs), which are the most energetic particles known in the Universe. In parallel to the detection of UHECRs and their associated extensive air-showers, a scaler mode was introduced to explore the possibility to detect gamma-ray bursts through the increase of the low-energy cosmic-ray background. We report on these studies and discuss their successful application on Solar physics. At the end we discuss possibility of observing earthquakes and our future work.