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TeV Gamma rays with ICAL-INO

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The feasibility of the detection of TeV gamma-rays from astrophysical objects has been carried out using the INO-ICAL detector. The detection of very high energy gamma-rays has been followed by the detection of down going muons produced through the electromagnetic showers initiated by gamma-ray in the atmosphere. As the produced muons through this process are of same charge ratio, they might be result in the enhancement of mu+ to mu- ratio at very high energy (above 100 GeV). The ICAL detector is proposed to be a magnetised calorimeter with an average magnetic field of nearly 1.3 T. So the signature of gamma-rays could be addressed very easily through this technique.

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