VERY HIGH-ENERGY γ-RAY OBSERVATIONS OF THE CRAB NEBULA AND OTHER POTENTIAL SOURCES WITH THE GRAAL EXPERIMENT

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The GRAAL (Gamma Ray Astronomy at ALmeria) experiment uses a mirror area of ≈ 2500 m^2 at the Plataforma Solar de Almeria (CESA-1 field) to collect Cherenkov light from airshowers. Data sets taken in the period September 1999 - September 2000 in the direction of the Crab pulsar, the active galaxy 3C 454.3, the unidentified γ-ray source 3EG 1835+35 and a "pseudo source" were analysed for high energy γ-ray emission. Evidence for γ-ray signal from the Crab pulsar above a threshold energy of about 200 GeV is reported. No evidence for emission from the other sources was found.