SEARCH FOR TEV GAMMA RAY EMISSION FROM 4C39.12 WITH THE WHIPPLE 10 M CHERENKOV TELESCOPE

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The Whipple telescope has been used over the past decade in the search for VHE emission from BL Lacertae objects, which were selected based on different criteria. Here we report on a new candidate, 4C39.12, a radio selected source in the 408 MHz B2 survey which includes Mrk421 and Mrk501. Given its low redshift (z=0.02), the close similarities to Mrk421 and Mrk501 and the recent identification of a relativistic jet at a small angle with respect to the line of sight (θ < 45°) 4C39.12 is a good candidate for VHE emission. This object has not been catalogued by EGRET but it is detected by ROSAT at a level consistent with non-thermal emission from the core and is classified as an X-Ray selected BL Lac in some references. Over a period of 5 months the Whipple Telescope has been monitoring the object for evidence of emission above 300 GeV. A 99.99% confidence upper limit to the flux is derived from these observations.