

## MULTI-TeV GAMMA-RAY OBSERVATION OF SEVERAL STRONG OUTBURSTS OF MRK 421 DURING 2000 AND 2001 WITH THE TIBET-III AIR-SHOWER ARRAY

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The BL Lac object Mrk 421 was sometimes in a very bright state during 2000. Using the Tibet-III air-shower array, consisting of 545 scintillation counters of each 0.5 m<sup>2</sup> placed on a 7.5 m grid and covering an area of 22000 m<sup>2</sup>, we searched for multi-TeV gamma rays in association with outbursts of this source and succeeded in detecting significant signals in February and May, 2000. We report the integral fluxes of gamma rays above about 3 TeV as a function of day in this conference.