

THE EXTENDED ANALYSIS OF THE TREK DETECTOR

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Extended-Trek is the continuation of the Trek ultraheavy cosmic-ray project. The Trek detector consisted of an array of stacks of 16 sheets of BP-1 track-etch glass. The detector was exposed on the *Mir* space station between 1991 and 1995. The first results of the Trek experiment were based on a maximum of 12 signal measurements for each cosmic-ray event. Extended-Trek increases this to a maximum of 32 measurements for a selected sample of cosmic-ray tracks. The selected sample comes from detector stacks which were calibrated with 10.6 A GeV Au at two zenith angles. The anticipated improvement in charge resolution allows a direct measurement of the abundance of Ir in the cosmic rays, the first odd- Z abundance in this range of charge.