



Contribution ID: 936

Type: **Poster contribution**

Simulation study on a large field of view cherenkov telescope

Thursday 30 July 2015 15:30 (1 hour)

The large field of view and low threshold energy are highly desirable properties for the ground based observations of high energy GRBs. However, larger field of view is difficult to achieve for current imaging atmospheric cherenkov telescopes (IACT), and the threshold below $O(100)\text{GeV}$ is also a challenging for current EAS arrays. An alternative solution is to adopt the refractive optics system for IACTs to enlarge the field of view while keeping the low threshold energy. In this work, simulation studies on the effective area, angular resolution and gamma-ray sensitivity for such large field of view IACT are presented.

Collaboration

– not specified –

Registration number following "ICRC2015-I/"

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