



Contribution ID: 58

Type: **not specified**

## The Extragalactic Gamma-Ray Sky with VERITAS

*Tuesday, 14 May 2013 14:00 (25 minutes)*

The VERITAS observatory has now been operating for 5 years very successfully with >40 source detections in the TeV regime. A recent upgrade with high quantum efficiency photo detectors and a new camera trigger system sets the stage for the next phase of VERITAS. Key goals are to probe fundamental physics, including searches for dark matter annihilation signatures, to perform deep astrophysical TeV studies of the northern sky with unprecedented sensitivity and to expand the distance range of extragalactic TeV sources.

In this talk, I will discuss recent results from extragalactic TeV sources with a focus on blazars. These observations constrain the physics of relativistic jets, the origin of cosmic rays, the extragalactic background light and the magnetic field energy density in extragalactic space.

**Primary author:** KRENNRICH, Frank (Iowa State University)

**Presenter:** Mr DUMM, Jonathan (UW-Madison)

**Session Classification:** High-Energy Gamma-Ray Astrophysics I

**Track Classification:** High-Energy Gamma Ray Astrophysics Parallel