EVENT RECONSTRUCTION FOR THE ORBITING WIDE-ANGLE LIGHT COLLECTORS (OWL) AIR-FLUORESCENCE DETECTOR

- T. Z. Abu-Zayyad (1) and The OWL Collaboration (2)
- (1) University of Utah, 115 S. 1400 East Rm. 201 Salt Lake City, UT 84112,
- (2) http://owl.gsfc.nasa.gov.

tareq@cosmic.utah.edu

The observation of extensive air showers (EAS) from space has the potential of achieving a 10-100 fold increase in aperture over ground based detectors. The usefulness of the data collected by such a detector depends strongly on how well showers observed by the detector can be reconstructed to obtain an estimate of the primary cosmic ray particle energy and arrival direction. In this presentation we examine and present results on some issues related to event reconstruction. In particular we discuss mono/stereo geometrical reconstruction and the effect of clouds on the energy resolution.