

## **SIMULATED PERFORMANCE OF THE ORBITING WIDE-ANGLE LIGHT COLLECTORS (OWL) EXPERIMENT**

**J. F. Krizmanic** (1) and The OWL Collaboration (2)

(1) USRA/NASA GSFC, Greenbelt, Maryland 20771 USA,

(2) <http://owl.gsfc.nasa.gov> .

[jfk@cosmicra.gsfc.nasa.gov](mailto:jfk@cosmicra.gsfc.nasa.gov)

The Orbiting Wide-angle Light collectors (OWL) experiment is in NASA's mid-term strategic plan and will stereoscopically image, from equatorial orbit, the air fluorescence signal generated by airshowers induced by the ultra-high energy ( $E > few \times 10^{19}$  eV) component of cosmic radiation. Results, based upon detailed Monte Carlo simulations, will be presented describing the experiment's capability to measure UHE cosmic rays. The ability of OWL to observe UHE neutrino interactions will also be presented.