



Contribution ID : 1261

Type : **Poster**

## The Telescope Array Low-Energy Extension (TALE) Infill Ground Array

*Friday, 6 July 2007 14:45 (0:00)*

### Abstract content

The physics goals of the The Telescope Array Low-Energy Extension (TALE) include the hybrid measurement of spectrum and composition of cosmic rays down to energies below  $10^{17}$  eV. To achieve composition measurements from observation of extensive air showers, a ground array detector must have the ability to distinguish the muonic and electromagnetic components of a shower. Here, we consider the design issues relevant to the infill ground array component of the TALE hybrid detector, and present results of prototype studies as well as preliminary detector designs and the envisioned array layout.

**If this papers is presented for a collaboration, please specify the collaboration**

Telescope Array

### Summary

### Reference

Proceedings of the 30th International Cosmic Ray Conference; Rogelio Caballero, Juan Carlos D'Olive, Gustavo Medina-Tanco, Lukas Nellen, Federico A. Sánchez, José F. Valdés-Galicia (eds.); Universidad Nacional Autónoma de México, Mexico City, Mexico, 2008; Vol. 5 (HE part 2), pages 1167-1170

**Primary author(s) :** Prof. BELZ, John (University of Utah)

**Co-author(s) :** Dr. CADY, Robert (University of Utah)

**Presenter(s) :** Prof. BELZ, John (University of Utah)

**Session Classification :** Posters 2 + Coffee

**Track Classification :** HE.1.5