

Abstract Submitted  
for the APR10 Meeting of  
The American Physical Society

**Enhancements of the Southern Pierre Auger Observatory** RALF  
ULRICH, Pennsylvania State University, PIERRE AUGER COLLABORATION —  
The southern Pierre Auger observatory in Argentina takes data routinely now, and  
the first physics results have been obtained and published. The successful operation  
of the experiment is soon going to be enhanced by the low energy extension HEAT  
and the muon detector system AMIGA. Both of these extensions individually have  
a large potential to answer further questions for example concerning the high energy  
galactic cosmic ray component and the transition from galactic to extragalactic  
cosmic rays.

Ralf Ulrich  
Pennsylvania State University

Date submitted: 23 Oct 2009

Electronic form version 1.4