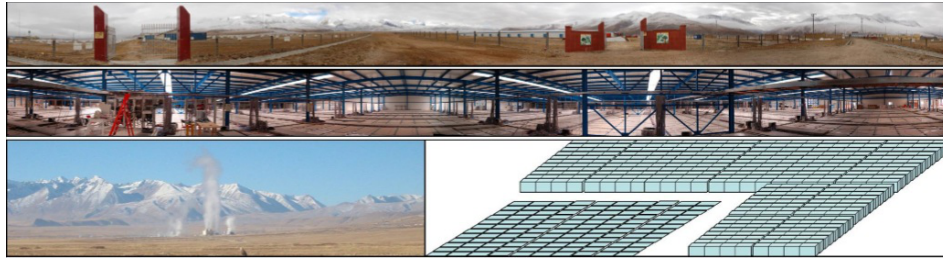


## 4th Workshop on Air Shower Detection at High Altitude



Contribution ID: 21

Type: **not specified**

# Performance and construction status of the HAWC Observatory

*Friday, 1 February 2013 11:20 (30 minutes)*

The High-Altitude Water Cherenkov (HAWC) Observatory is a TeV gamma-ray observatory currently under construction at a 4100m a.s.l. site in central Mexico. HAWC is made up of 300 188,000 liter water tanks, each instrumented with 4 PMTs. The full HAWC detector will be sensitive enough to detect the Crab with a significance of 7 sigma in a single transit, about 15 times more sensitive than Milagro. I will review the status of the HAWC detector and show initial results from the first 30 instrumented tanks. I will also review the design optimization and sensitivity estimation procedure.

**Presenter:** SMITH, Andrew

**Session Classification:** The High Altitude opportunities I