

# Postdoctoral Position in Experimental Particle Astrophysics HAWC VHE Gamma Ray Observatory

The Particle Astrophysics group at Michigan State University has an opening for a postdoctoral researcher to work on the High Altitude Water Cherenkov (HAWC) observatory, a very high energy gamma ray observatory under construction near Puebla, Mexico. HAWC will be the world's most sensitive wide field of view detector of gamma rays at very high energies (above roughly 100 GeV). Initial physics operation of HAWC is planned for early 2012, so the successful candidate will have the opportunity to analyze the first data from this new instrument, as well as the existing Milagro dataset.

The Michigan State group has particular interest in characterizing diffuse VHE emission by measuring source morphology and energy spectra, but the successful candidate would also be encouraged to develop their own analysis ideas. The group has leadership responsibility for HAWC electronics and primary responsibility for the GPS subsystem, the timing and control logic of the DAQ, and adjustment of the Milagro front end electronics to the HAWC environment. We expect to contribute to the simulation effort, including modeling of the electronics, and to calibration and triggering. More information about HAWC is available at <http://hawc.umd.edu>.

Applications will be considered from Ph.D. physicists and astronomers with strong backgrounds in particle astrophysics, particle physics, cosmic ray physics, and related fields. Experience with analog or digital electronics is preferred. Applicants should submit a brief letter of application, curriculum vitae including a description of research experience and interests, and arrange to have three letters of recommendation sent to:

Prof. James T. Linnemann  
Michigan State University  
Department of Physics & Astronomy  
3245 BPS Building  
East Lansing, MI 48824  
linnemann@pa.msu.edu

Electronic submission of application materials is preferred. Applications will be accepted until the position is filled.

For additional information, please send e-mail to [linnemann@pa.msu.edu](mailto:linnemann@pa.msu.edu)  
*Michigan State University is committed to affirmative action, equal opportunity, and the diversity of its workforce.*