

# **Physics Colloquium**

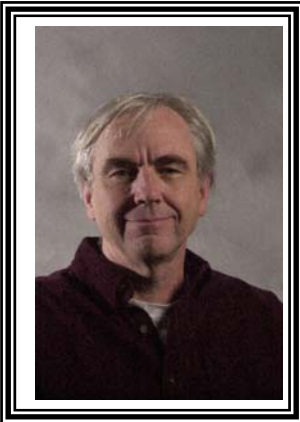
## **Michigan Technological University**

Thursday, December 7th, 2006, 4:00 to 5:00 pm  
Room 139, Fisher Hall

### **Early Scientific Results from the Pierre Auger Cosmic Ray Observatory**

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#### **Abstract**



The origin of ultra high energy radiation is an ongoing enigma in the field of astro-particle Physics. What physical mechanism is responsible for producing the highest energy phenomenon seen anywhere in the Universe? Only a dedicated detector can bring in the high quality and statistically significant data needed to solve this long-lasting puzzle: this is the aim of the Pierre Auger Cosmic Ray Observatory. While still under construction, the Observatory is already accumulating data. Here we shall present some early results based on about 0.5 year's worth of observations. Even with this small initial data set significant scientific progress can be made in the search for the origin of the highest energy cosmic rays.