

Abstract Submitted  
for the APR12 Meeting of  
The American Physical Society

**ASPIRE - Cloud Chambers as an Introduction to Cosmic Ray Observation**<sup>1</sup> JULIE CALLAHAN, JOHN MATTHEWS, CHARLES JUI, University of Utah, ASPIRE TEAM<sup>2</sup> — ASPIRE is the K12 - Education & Public Outreach program for the Telescope Array ultra-high energy cosmic ray research project in Utah. The Telescope Array experiment studies ultra-high energy cosmic rays with an array of  $\sim 500$  surface scintillator detectors and three fluorescence telescope stations observing over 300 square miles in the West Desert of Utah. Telescope Array is a collaboration of international institutions from the United States, Japan, Korea, Russia and Belgium. Cloud chambers are an inexpensive and easy demonstration to visually observe evidence of charged particles and cosmic ray activity both for informal events as well as for K12 classroom activities. Join us in building a cloud chamber and observe cosmic rays with these table-top demonstrations. A brief overview of the Telescope Array project in Millard County, Utah will also be presented.

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<sup>2</sup>The Astrophysics Science Project Integrating Research & Education

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Date submitted: 06 Jan 2012

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