



Contribution ID: 173

Type: Oral

The Askaryan Radio Array: Detector Design & Operation

Friday, June 6, 2014 3:20 PM (20 minutes)

The Askaryan Radio Array (ARA), currently under construction at the South Pole, is a large-scale cosmogenic neutrino detector designed to observe the coherent radio pulses associated with neutrino-induced cascades in the radio-transparent cold Antarctic ice. The detector incorporates novel bore-hole antenna designs, RF over fiber technology, custom ASIC digitizer, FPGA-based triggering, and ruggedized embedded computer systems all deployed in the South Pole ice sheet.

Author: DUVERNOIS, Michael (University of Wisconsin)

Presenter: DUVERNOIS, Michael (University of Wisconsin)

Session Classification: II.c Neutrino

Track Classification: Experiments: 2c) Detectors for neutrino physics