



Contribution ID: 25

Type: **not specified**

GRETINA: Status and Recent Results

GRETINA is a first implementation of a gamma-ray tracking array and is composed of highly-segmented hyper-pure germanium crystals read out by digital electronics. Within the array, individual gamma-ray interaction points are determined by advanced signal processing to provide high spatial resolution allowing precise Doppler reconstruction of gamma-rays emitted in-flight. Following construction and commissioning at LBNL, GRETINA has completed two physics campaigns at NSCL/MSU and at ATLAS/ANL and has expanded from 7 quad modules to 10 quad modules. This summer, the third GRETINA physics campaign will wrap up at NSCL/MSU and the array will move to ATLAS/ANL to prepare for its fourth physics campaign. I will provide an overview of the project, present highlights from the science program, and outline technical enhancements to the device. I will also discuss the near-term plans for GRETINA as well as the proposed path to GRETA.

Primary author: Dr CAMPBELL, Christopher (Lawrence Berkeley National Laboratory)

Presenter: Dr CAMPBELL, Christopher (Lawrence Berkeley National Laboratory)