

# **Workshop on FPGAs for High-Energy Physics**

**Friday, 21 March 2014 - Friday, 21 March 2014**

**CERN**

## **Scientific Programme**

Agenda (tentative)

Welcome and Introduction - Helio Takai (BNL) and Mike Wirthlin (BYU)

FPGAs in the upgrade of CMS HCAL - Tullio Grassi (CERN)

Very Forward Muon Trigger and Data Acquisition Electronics for CMS: Design and Radiation Testing - Jason Gilmore (Texas A&M) and Ben Bylsma (Ohio State)

FPGAs in ATLAS Front-End Electronics - Christian Bohm (Stockholm University)

FPGAs in LHCb - Tom O'Bannon (Maryland)

Rosetta: From 250nm to 28nm Terrestrial SER Xilinx FPGA Devices - TBA

Using Microsemi Flash-Based FPGA in Radiation Environment - JJ Wang (Microsemi)

Radiation Tolerance Studies using Fault Injection on the Readout Control FPGA Design of the ALICE TPC Detector - TBA

Using Altera FPGAs in High Energy Physics Experiments - Gautam Verma (Altera)

The unique challenges of SEE testing for FPGAs - Gary Swift (Swift Engineering)

Scrubbing and Mitigation for 28-nm Kintex-7 FPGAs - Mike Wirthlin (BYU)

Discussion and Closing