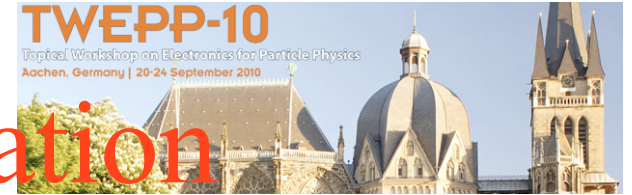




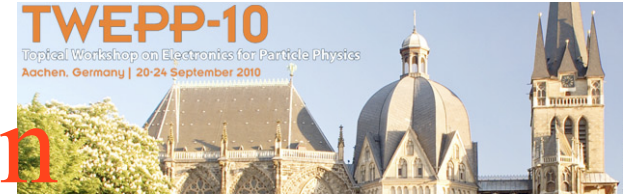
Summary of Irradiation Activity

K.K. Gan
The Ohio State University
September 22, 2010



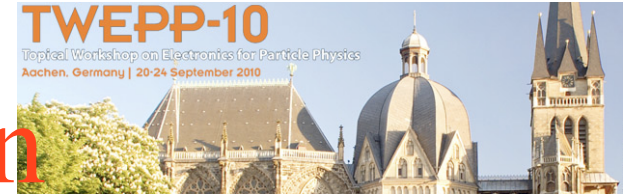
VCSEL/PIN Irradiation

- 850 nm VCSEL/PIN arrays:
 - ◆ participating institution: Ohio State University
 - ◆ 2010:
 - 20 ULM 5 Gb/s PIN + 12 AOC 10 Gb/s with 24 GeV protons
 - 2 ULM 5 Gb/s PIN + 1 AOC 10 Gb/s with 300 MeV pions
 - ◆ 2011:
 - 2 ULM 10 Gb/s PIN/VCSEL + 20 AOC 10 Gb/s with protons
- VCSEL/PIN (single channel):
 - ◆ participating institution: CERN
 - ◆ various devices tested with 300 MeV pions in August



Chips Irradiation

- array VCSEL driver/PIN receiver for IBL/SLHC:
 - ◆ participating institutions: Ohio State/Siegen
 - ◆ Date: yearly
 - ◆ 24 GeV/c protons, tens Mrad
- LOC chips:
 - ◆ participating institution: SMU
 - ◆ Date: yearly
 - ◆ 200 MeV/c protons



Fiber Irradiation

- Infinicor SX+:
 - ◆ participating institution: SMU
 - ◆ Date: 2010/11
 - ◆ Co⁶⁰ (-25 C), few Mrad