Short CV: Michael MOLL

Dr. Michael Moll;

CERN - European Organization for Nuclear Research; Physics Department; CH 1211 Geneva 23

E-mail michael.moll@cern.ch

Education & Positions:

1995-1999 Dr. rer. nat (Ph.D.) in Physics, University of Hamburg and DESY-Hamburg,

Thesis: " Radiation Damage in Silicon Particle Detectors

- Microscopic Defects and Macroscopic Properties - "

1999 - 2001 Applied Fellow at CERN, Switzerland, Physics Department;

Microelectronics Group / Technical Assistance Group

since 2001 Applied Physicist at CERN, Switzerland, Physics Department,

Detector Technologies Group

Main research interests:

- Development and construction of solid state particle detectors
- Radiation damage in semiconductor detector systems
- Radiation monitoring
- Interconnect technologies for solid state detectors
- Microscopic defect formation and annealing in solid state materials

Present main activities:

- Co-Spokesperson of the CERN RD50 collaboration

The RD50 Collaboration "Radiation hard semiconductor devices for very high luminosity colliders" is working on the development of silicon sensors for the luminosity upgrade of the Large Hadron Collider at CERN. The collaboration presently has 260 members from 47 institutions.

- Leader of AIDA WP8 "Improvement and Equipment of Irradiation and Test beam lines" AIDA "Advanced European Infrastructure for Detectors at Accelerators" is a large European project within the FP7 Research Infrastructures programme. The Workpackage 8 with 19 participating European partners is focusing mainly on the improvement and upgrade of irradiation facilities and test beam lines at CERN, DESY and FNL.
- Operation and upgrade of irradiation facilities at CERN Operation of CERN PS EAST HALL irradiation facilities (24 GeV/c proton beam and mixed radiation field) and the Gamma Irradiation Facility (GIF) containing a Cs source.
- Research on detectors and detector materials for future collider experiments (RD50 & CMS) R&D on radiation damage in silicon detectors with the aim to develop radiation tolerant new silicon materials and detector concepts in the framework of the RD50 and CMS collaborations.
- Leader of the CERN PH-DT-DD section (Detector Development)
 Section comprising services (thin film & glas lab, Silicon Facility, QART and bond lab, Irradiation facilities) and R&D projects on silicon and gaseous (MPGD) detectors.