

**Session Program**

**30 May 2012 to 1 June 2012**

**20th RD50 Workshop (Bari)**

***Detector Characterization and Simulations***

Bari

# Thursday 31 May

09:00

## Detector Characterization and Simulations

**Session** | **Location:** Bari | **Conveners:** Eckhart Fretwurst, Vladimir Eremin

09:00–09:20

### FORMATION AND ANNEALING OF INTERSTITIAL DEFECTS IN P-TYPE SILICON AND SILICON-GERMANIUM ALLOYS UNDER ELECTRON AND ALPHA-IRRADIATION

**Speaker**

Dr Leonid Makarenko

09:20–09:40

### Irradiation study on diodes of different silicon materials for the CMS tracker upgrade

**Speaker**

Joachim Erfle

09:40–10:00

### Impact of proton irradiations with different particle-energies on the electrical properties of Si-diodes

**Speaker**

Coralie Neubuser

10:00–10:20

### Operational conditions for enhancement of collected charge via avalanche multiplication in n-on-p strip detectors

**Speaker**

Dr Elena Verbitskaya

10:20–10:50

### Coffee Break

10:50–11:10

### Analysis of Edge and Surface TCTs for Irradiated 3D Silicon Strip Detectors

**Speaker**

Graeme Douglas Stewart

11:10–11:30

### Characterization of Micron n-on-p ministrip sensors irradiated with 24 GeV/c protons.

**Speaker**

Nicola Pacifico

11:30–11:50

### Charge collection studies on heavily irradiated diodes from the RD50 multiplication run

**Speaker**

Gregor Kramberger

11:50–12:10

### Thin Irradiated Strip and Pixel Detectors

**Speaker**

Philipp Weigell

**12:10-12:30****Low cost commercial scanning TCT setup****Speaker**

Gregor Kramberger

**12:30-13:00****TCAD Simulation of irradiated Silicon radiation detector using commercial simulation products****Speaker**

Mathieu Benoit

**13:00-14:00****Lunch****14:00-14:20****Electric Field Modeling by simulations with ISE-TCAD****Speaker**

Mercedes Minano Moya

**14:20-14:40****Simulation of the Double Peak Effect in irradiated Sensors****Speaker**

Robert Eber

**14:40-15:00****Isolation Characteristics of Silicon Sensors Using Simulation Approach****Speaker**

Dr Kirti Ranjan

**15:00-15:30****Discussion - Simulation Working Group****Speakers**

Eckhart Fretwurst, Vladimir Eremin

15:30