6th RD50 - Workshop on Radiation hard semiconductor devices for very high luminosity colliders

Report of Contributions

Contribution ID: **1** Type: **not specified**

Manufacture of High Resistivity, Low Oxygen Czochralski Silicon

Thursday 2 June 2005 09:15 (25 minutes)

Author: OLLI ANTTILA (Okmetic Oyj)

Presenter: OLLI ANTTILA (Okmetic Oyj)

Session Classification: Plenary session -Silicon technology for detectors

Contribution ID: **2** Type: **not specified**

Quantitative copper and iron measurement in silicon using contactless recombination lifetime measurements

Thursday 2 June 2005 09:40 (20 minutes)

Author: HELE SAVIN (Helsinki University of Technology)

Presenter: HELE SAVIN (Helsinki University of Technology)

Session Classification: Plenary session -Silicon technology for detectors

Contribution ID: **3** Type: **not specified**

Welcome

Thursday 2 June 2005 09:00 (20 minutes)

Author: MARA BRUZZI, JAAKKO HAERKOENEN AND MICHAEL MOLL

Presenter: MARA BRUZZI, JAAKKO HAERKOENEN AND MICHAEL MOLL

Session Classification: Plenary session -Silicon technology for detectors

Contribution ID: **4** Type: **not specified**

Admittance spectroscopy study of point defects and nano-clusters in irradiated high-purity silicon

Thursday 2 June 2005 10:00 (20 minutes)

Author: KLAUS JOHANSEN (University of Oslo)

Presenter: KLAUS JOHANSEN (University of Oslo)

Session Classification: Defect and Material Characterization

Contribution ID: **5** Type: **not specified**

X defect after Co-60 gamma irradiation

Thursday 2 June 2005 10:20 (20 minutes)

Author: FRANK HÖNNIGER (University of Hamburg)

Presenter: FRANK HÖNNIGER (University of Hamburg)

Session Classification: Defect and Material Characterization

Contribution ID: **6** Type: **not specified**

Photoinduced transient spectroscopy of epitaxial silicon irradiated with high proton fluences

Thursday 2 June 2005 10:40 (20 minutes)

Author: PAWEL KAMINSKI (Institute of Electronic Materials Technology)

Presenter: PAWEL KAMINSKI (Institute of Electronic Materials Technology)

Session Classification: Defect and Material Characterization

Contribution ID: **7** Type: **not specified**

Irradiation damage in sublimation grown 6H-SiC

Thursday 2 June 2005 11:00 (20 minutes)

Author: MADS MIKELSEN (University of Oslo)

Presenter: MADS MIKELSEN (University of Oslo)

Session Classification: Defect and Material Characterization

Contribution ID: **8** Type: **not specified**

Shallow donors in MCz-Si n- and p-type Detectors at different process temperature, irradiation and thermal treatments

Thursday 2 June 2005 11:00 (20 minutes)

Author: DAVID MENICHELLI (University of Florence, INFN Florence)

Presenter: DAVID MENICHELLI (University of Florence, INFN Florence)

Session Classification: Defect Engineering

Contribution ID: **9** Type: **not specified**

Numerical simulation of radiation damage effects in p-type silicon detectors

Thursday 2 June 2005 11:20 (20 minutes)

Author: MARCO PETASECCA (University of Perugia - DIEI)

Presenter: MARCO PETASECCA (University of Perugia - DIEI)

Session Classification: Defect Engineering

Contribution ID: **10** Type: **not specified**

Detector Recovery/Improvement Via Elevated-temperature-annealing (DRIVE) - A New Approach for Si Detector Applications in High Radiation Environment in SLHC

Thursday 2 June 2005 11:40 (20 minutes)

Author: ELENA VERBITSKAYA (Ioffe Physico-Technical Institute RAS)

Presenter: ELENA VERBITSKAYA (Ioffe Physico-Technical Institute RAS)

Session Classification: Defect Engineering

Contribution ID: **11** Type: **not specified**

Radiation tolerant epitaxial silicon detectors of different thickness

Thursday 2 June 2005 13:50 (20 minutes)

Author: ECKHART FRETWURST (Univeristy of Hamburg)

Presenter: ECKHART FRETWURST (Univeristy of Hamburg)

Session Classification: Pad Detector Characterization

Contribution ID: **12** Type: **not specified**

Investigation of voltages and electric fields in silicon radiation detectors using a scanning electron microscope

Thursday 2 June 2005 14:10 (20 minutes)

Author: KARI LEINONEN (Lappeenranta University of Technology)

Presenter: KARI LEINONEN (Lappeenranta University of Technology)

Session Classification: Pad Detector Characterization

Contribution ID: **13** Type: **not specified**

Irradiation results of MCZ, thinned and epitaxial detectors

Thursday 2 June 2005 14:30 (20 minutes)

Author: ANDREA CANDELORI (INFN Padova)

Presenter: ANDREA CANDELORI (INFN Padova)

Session Classification: Pad Detector Characterization

Contribution ID: **14** Type: **not specified**

Characterization of n and p-type diodes processed on Fz and MCz silicon after irradiation with protons of 24GeV/c and 26 MeV/c and with reactor neutrons

Thursday 2 June 2005 14:50 (20 minutes)

Author: NORMAN MANNA (INFN Bari)

Presenter: NORMAN MANNA (INFN Bari)

Session Classification: Pad Detector Characterization

Contribution ID: **15** Type: **not specified**

Minimum ionizing particle detector based on p+n junction SiC diode

Thursday 2 June 2005 16:00 (20 minutes)

Author: FRANCESCO MOSCATELLI (DIEI and INFN Perugia and CNR-IMM Bologna)

Presenter: FRANCESCO MOSCATELLI (DIEI and INFN Perugia and CNR-IMM Bologna)

Session Classification: New Materials

Contribution ID: **16** Type: **not specified**

Properties of 12 micron thick epitaxial GaN irradiated up to 1e16 cm2 by 24 GeV protons

Thursday 2 June 2005 16:20 (20 minutes)

Author: JUOZAS VAITKUS (Vilnius University)

Presenter: JUOZAS VAITKUS (Vilnius University)

Session Classification: New Materials

Contribution ID: **17** Type: **not specified**

I-V & CCE Characterisation of Proton Irradiated 12 Micron Epitaxial GaN Detectors

Thursday 2 June 2005 16:40 (20 minutes)

Author: JAMES GRANT (University of Glasgow)

Presenter: JAMES GRANT (University of Glasgow)

Session Classification: New Materials

Contribution ID: **18** Type: **not specified**

COMPARISON OF SHALLOW DONOR FORMARION AND RADIATION DEFECT ELIMINATION IN HYDROGENATED PARTICLE DETECTORS MADE OF STANDARD AND DIFFUSION OXYGENATED SILICON

Thursday 2 June 2005 17:00 (20 minutes)

Author: LEONID MAKARENKO ((Belarusian State University)

Presenter: LEONID MAKARENKO ((Belarusian State University)

Session Classification: New Materials

Contribution ID: **19**

Type: **not specified**

EVALUATION OF OXYGEN AND CARBON CONTENT IN STANDARD FLOAT ZONE SILICON DETECTORS

Thursday 2 June 2005 17:20 (20 minutes)

Author: LEONID MAKARENKO ((Belarusian State University))

Presenter: LEONID MAKARENKO ((Belarusian State University))

Session Classification: New Materials

Contribution ID: **20** Type: **not specified**

Neutron-induced activity studies of the ATLAS SCT strip detector module, glues and paint

Friday 3 June 2005 09:00 (20 minutes)

Author: VLADIMIR LINHART (Czech Technical University in Prague)

Presenter: VLADIMIR LINHART (Czech Technical University in Prague)

Session Classification: Full Detector Systems

Contribution ID: **21** Type: **not specified**

Prospects and Benefits of Freiburg joining RD50

Friday 3 June 2005 11:55 (20 minutes)

Author: ULRICH PARZEFALL

Presenter: ULRICH PARZEFALL

Session Classification: Full Detector Systems

Contribution ID: **22** Type: **not specified**

Radiation Effects Facility (RADEF) at Jyväskylä

Friday 3 June 2005 12:15 (20 minutes)

Author: ARI VIRTANEN (University of Jyväskylä)

Presenter: ARI VIRTANEN (University of Jyväskylä)

Session Classification: Full Detector Systems

Contribution ID: **23** Type: **not specified**

Updated double junction simulation of CMS pixel test beam data

Friday 3 June 2005 09:20 (20 minutes)

Author: MORRIS SWARTZ (Johns Hopkins University)

Presenter: MORRIS SWARTZ (Johns Hopkins University)

Session Classification: Full Detector Systems

Contribution ID: **24** Type: **not specified**

Test Beam Results of Proton Irradiated Czochralski Silicon Strip Detector

Friday 3 June 2005 09:40 (20 minutes)

Author: PANJA LUUKKA (Helsinki Institute of Physics)

Presenter: PANJA LUUKKA (Helsinki Institute of Physics)

Session Classification: Full Detector Systems

Contribution ID: **25** Type: **not specified**

Radiation Testing of bipolar SiGe transistors

Friday 3 June 2005 10:00 (20 minutes)

Author: HARTMUT F.-W. SADROZINSKI (SCIPP, UC Santa Cruz)

Presenter: HARTMUT F.-W. SADROZINSKI (SCIPP, UC Santa Cruz)

Session Classification: Full Detector Systems

Contribution ID: **26** Type: **not specified**

Update of annealing measurements on heavily irradiated p-type sensors

Friday 3 June 2005 10:20 (20 minutes)

Author: GIANLUIGI CASSE (University of Liverpool)

Presenter: GIANLUIGI CASSE (University of Liverpool)

Session Classification: Full Detector Systems

Contribution ID: **27** Type: **not specified**

Laser Tests of Silicon Strip Sensors

Friday 3 June 2005 10:40 (20 minutes)

Author: PETER KODYS (Charles University, Prague)

Presenter: PETER KODYS (Charles University, Prague)

Session Classification: Full Detector Systems

Contribution ID: **28** Type: **not specified**

P-spray implant optimization for P-type microstrip detectors.

Friday 3 June 2005 10:55 (20 minutes)

Author: CELESTE FLETA (CNM Barcelona)

Presenter: CELESTE FLETA (CNM Barcelona)

Session Classification: Full Detector Systems

Contribution ID: **29** Type: **not specified**

2D simulation of n-on-p strip detectors with different p-stop and p-spray structures

Friday 3 June 2005 11:15 (20 minutes)

Author: TANJA PALVIAINEN (Lappeenranta University of Technology)

Presenter: TANJA PALVIAINEN (Lappeenranta University of Technology)

Session Classification: Full Detector Systems

Contribution ID: **30** Type: **not specified**

Irradiation of Fz and MCz mini-sensors of n and p-type with 24 GeV/c and 26 MeV/c protons up to fluences of 3.0E+15 1MeV n/cm2. Irradiation of Fz and MCz mini-sensors of n and p-type with 24 GeV/c an

Friday 3 June 2005 11:35 (20 minutes)

Author: ALBERTO MESSINEO (Pisa University)

Presenter: ALBERTO MESSINEO (Pisa University)

Session Classification: Full Detector Systems

Contribution ID: **31**

Type: **not specified**

New Single-sided 2d and (2+3)d Stripixel Detectors: Concept, Simualtion, and Design

Saturday 4 June 2005 10:30 (20 minutes)

Author: ZHENG LI

Presenter: ZHENG LI

Session Classification: New Structures

Contribution ID: **32** Type: **not specified**

Measurement of MCz sensors

Saturday 4 June 2005 10:50 (20 minutes)

Author: DANIELA BORTOLETTO (purdue)

Presenter: DANIELA BORTOLETTO (purdue)

Session Classification: New Structures

Contribution ID: **33** Type: **not specified**

Annealing studies on Sintef sensors

Saturday 4 June 2005 10:50 (20 minutes)

Author: DANIELA BORTOLETTO (purdue)

Presenter: DANIELA BORTOLETTO (purdue)

Session Classification: New Structures