

3rd MC-PAD Network Training Event / Midterm Review

Sunday, 26 September 2010 - Thursday, 30 September 2010

Jožef Stefan Institute



Book of Abstracts

Contents

Semiconductor tracking and vertex detectors at future high energy physics experiments	1
Effects of radiation to device performance	1
Investigation of radiation defects	1
Silicon detectors for photo-detection	1
Processing of silicon detectors I	1
Processing of silicon detectors II	1
Surface effects and breakdown voltage	2
Stellar Structure and evolution	2
Overview	2
MC-PAD financial and administrative	2
WP1 - CERN	2
WP1 - GSI	3
WP2 - PSI	3
WP2 - Uni. Hamburg	3
WP3 - Uni. Hamburg	3
WP3 - JSI	3
WP4 - CERN	4
WP4 - INFN Frascati	4
WP5 - DESY	4
WP5 - NIKHEF	4
WP6 - AGH	4
WP6 - DESY	5
WP7 - CERN	5

WP8 - JSI	5
WP9 - NIKHEF	5
WP10 - AGH-UST	5
WP11 - AGH-UST	6
WP11 - GSI	6
WP12 - CERN	6
WP12 - INFN Frascati	6
WP5 - GSI	7

Radiation hardness of semiconductor detectors / 0

Semiconductor tracking and vertex detectors at future high energy physics experiments

Author: Phil Allport¹

¹ *University of Liverpool*

Radiation hardness of semiconductor detectors / 1

Effects of radiation to device performance

Author: Michael Moll¹

¹ *CERN, Geneva*

Corresponding Author: michael.moll@cern.ch

Radiation hardness of semiconductor detectors / 2

Investigation of radiation defects

Author: Ioana Pintilie¹

¹ *NIMP Bucharest*

Radiation hardness of semiconductor detectors / 5

Silicon detectors for photo-detection

Author: Samo Korpar¹

¹ *University of Maribor and Jožef Stefan Institute*

Corresponding Author: samo.korpar@ijs.si

Silicon detector processing and technology / 6

Processing of silicon detectors I

Author: Manuel Lozano¹

¹ *CNM-IMB Barcelona*

Corresponding Author: manuel.lozano@imb-cnm.csic.es

Silicon detector processing and technology / 7

Processing of silicon detectors II

Author: Manuel Lozano¹

¹ *Instituto de Microelectronica de Barcelona (CNM-IMB)*

Corresponding Author: manuel.lozano@imb-cnm.csic.es

Radiation hardness of semiconductor detectors / 8

Surface effects and breakdown voltage

Author: Gian-Franco Dalla Betta¹

¹ *University of Trento, FBK Trento*

10

Stellar Structure and evolution

The seminar will present the information which can be obtained from the stellar spectra- temperature, density, state of the matter, chemical composition, and how the internal structure can be derived, which are the source of energy and how the continuous emission of radiation modifies the stellar structure. The mass is the parameter which affects the whole evolution of a star.

Overview of MC-PAD ITN project - Christian Joram / 11

Overview

Corresponding Author: christian.joram@cern.ch

Meeting with the Project Team - Sergio Mastropiero / 12

MC-PAD financial and administrative

Corresponding Author: seamus.hegarty@cern.ch

Teaching and Training activities I - presentations by MC-PAD Researchers / 14

WP1 - CERN

Author: Nicola PACIFICO¹

¹ *CERN*

Corresponding Author: nicola.pacifico@cern.ch

Teaching and Training activities I - presentations by MC-PAD Researchers / 15

WP1 - GSI

Author: Tomas Balog¹

¹ *GSI*

Corresponding Author: t.balog@gsi.de

Teaching and Training activities I - presentations by MC-PAD Researchers / 16

WP2 - PSI

Author: Jennifer Sibille¹

¹ *PSI*

Teaching and Training activities I - presentations by MC-PAD Researchers / 17

WP2 - Uni. Hamburg

Author: Jiaguo Zhang¹

¹ *University of Hamburg*

Corresponding Author: jiaguo.zhang@desy.de

Teaching and Training activities I - presentations by MC-PAD Researchers / 18

WP3 - Uni. Hamburg

Author: Cristina Pirvutoiu¹

¹ *University of Hamburg*

Corresponding Author: cristina.pirvutoiu@desy.de

Teaching and Training activities I - presentations by MC-PAD Researchers / 19

WP3 - JSI

Author: Marko Milovanović¹

¹ *Jožef Stefan Institute*

Corresponding Author: marko.milovanovic@ijs.si

Teaching and Training activities I - presentations by MC-PAD Researchers / 20

WP4 - CERN

Author: Marco Villa¹

¹ *CERN*

Corresponding Author: marco.villa@cern.ch

Teaching and Training activities I - presentations by MC-PAD Researchers / 21

WP4 - INFN Frascati

Author: Jing Dong¹

¹ *INFN Frascati*

Corresponding Author: jing.dong@lnf.infn.it

Teaching and Training activities II - Presentations by MC-PAD Researchers / 22

WP5 - DESY

Author: Stefano Caiazza¹

¹ *DESY*

Corresponding Author: stefano.caiazza@cern.ch

Teaching and Training activities II - Presentations by MC-PAD Researchers / 23

WP5 - NIKHEF

Author: Rolf Schön¹

¹ *NIKHEF*

Corresponding Author: rolfs@nikhef.nl

Teaching and Training activities II - Presentations by MC-PAD Researchers / 24

WP6 - AGH

Author: Jonathan Aguilar¹

¹ *AGH Cracow*

Corresponding Author: aguilar@agh.edu.pl

Teaching and Training activities II - Presentations by MC-PAD Researchers / 25

WP6 - DESY

Author: Olga Novgorodova¹

¹ *DESY*

Corresponding Author: olga.novgorodova@cern.ch

Teaching and Training activities II - Presentations by MC-PAD Researchers / 26

WP7 - CERN

Author: Paolo Beltrame¹

¹ *CERN*

Corresponding Author: paolo.beltrame@cern.ch

Teaching and Training activities II - Presentations by MC-PAD Researchers / 27

WP8 - JSI

Author: Ruben Verheyden¹

¹ *JSI*

Corresponding Author: ruben.verheyden@ijs.si

Teaching and Training activities II - Presentations by MC-PAD Researchers / 28

WP9 - NIKHEF

Author: Francesco Zappon¹

¹ *NIKHEF*

Corresponding Author: fzappon@nikhef.nl

Teaching and Training activities II - Presentations by MC-PAD Researchers / 29

WP10 - AGH-UST

Author: Mohammed Imran Ahmed¹

¹ *AGH Cracow*

Corresponding Author: hereimran@gmail.com

Teaching and Training activities II - Presentations by MC-PAD Researchers / 30

WP11 - AGH-UST

Author: Prasoon AMBALATHANKANDY¹

¹ *AGH-UST Cracow*

Corresponding Author: prasoon@newton.ftj.agh.edu.pl

Name: Prasoon Ambalathankandy

Supervisor: Dr. Marek Idzik

Institution: WFiIS, AGH University of Science and Tech., Cracow.

Teaching and Training activities II - Presentations by MC-PAD Researchers / 31

WP11 - GSI

Author: Shahinur RAHMAN¹

¹ *GSI*

Corresponding Author: m.s.rahman@gsi.de

Teaching and Training activities II - Presentations by MC-PAD Researchers / 32

WP12 - CERN

Author: Tsagri Marie¹

¹ *CERN*

Corresponding Author: mary.tsagri@cern.ch

Teaching and Training activities II - Presentations by MC-PAD Researchers / 33

WP12 - INFN Frascati

Author: Filimon ROUKOUTAKIS¹

¹ *INFN Frascati*

Corresponding Author: filimon@phys.uoa.gr

Teaching and Training activities II - Presentations by MC-PAD Researchers / 35

WP5 - GSI

Author: Rahul ARORA¹

¹ *GSI*

Corresponding Author: r.arora@gsi.de