6th “TRENTO” WORKSHOP ON
ADVANCED SILICON RADIATION DETECTORS
(3D AND P-TYPE TECHNOLOGIES)
FBK, TRENTO, ITALY
Trento, March 2-4, 2011
Fondazione Bruno Kesser
Conference hall “Luigi Stringa”, Povo, Trento, Italy

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PROGRAMME
MARCH 2, 2011

08.45 a.m.  Registration
09.30 a.m.  Welcome and Introduction
09.45 a.m.  SESSION 1: Invited talks - Chair: Gian-Franco Dalla Betta
            Roberto Battiston - A cosmic ray magnetic spectrometer for the CSES satellite (China Seismo Electromagnetic Satellite)
            Hella Snoek - The CMS pixel detector: commissioning and performance
10.55 a.m.  Coffee
            Saverio D’Auria - ATLAS silicon detector performance
            Cinzia Da Via - 3D silicon qualification for the ATLAS IBL project
12.15 a.m.  Conference photograph
12.30 a.m.  Lunch
02.00 p.m.  SESSION 2: Active/Slim edge sensors - Chair: Hartmut Sadrozinski
            Thor-Erik Hansen - Edge-On Sensors with Active Edge Fabricated by 3D-Technology
            Wu Xiao Peng - Recent results of VTT’s edgeless detector prototypes
            Alvise Bagolini - Development of planar active-edge technology at FBK
            Marc Christophersen - Laser-Scribing and Sidewall Passivation of P-Type Sensors
            Shingo Mitsui - Evaluation of lateral depletion in the edge region and evaluation of punch-through-protection in the strip ends before and after irradiation
            Gabriele Giacomini - Slim edge in 3D detectors
04.00 p.m.  Coffee
04.20 p.m.  SESSION 3: 3D sensors 1 - Technology - Chair: Maurizio Boscardin
            Giulio Pellegrini - Status of 3D detector fabrication at CNM
            Angela Kok - Fabrication of Full 3D Active Edge Sensors
            Elisa Vianello - Status of 3D detector fabrication at FBK
05.20 p.m.  Discussion
06.20 p.m.  Adjourn
06.30 p.m.  Welcome Cocktail, FBK
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PROGRAMME
MARCH 3, 2011

09.00 a.m.  SESSION 3: planar sensors 1  Chair: Gian-Luigi Casse
Philippe Weigell - Charge collection efficiency of thin n-in-p planar micro-strip sensors
Yoshinobu Unno - Latest results in developing n-in-p pixel and microstrip sensors for very high radiation environments
André Rummeler - Silicon n-in-n pixel detectors: Sensor productions for the ATLAS upgrades, first slim-edge measurements and experiences with detectors irradiated up to SLHC fluences
Alessandro La Rosa - Overview of Silicon n-in-p Pixel Detectors characterization for ATLAS Upgrade
Sudeep Chatterji - Development of radiation-hard sensors and cables for the CBM silicon tracking system

10.50 a.m.  Coffee

11.10 a.m.  SESSION 4: planar sensors 2  Chair: Yoshinobu Unno
Gregor Kramberger - Investigation of electric field in heavily irradiated detectors by Edge-TCT
Nicola Pacifico - Edge-TCT and CCE studies on p-type ministrip sensors
Hartmut Sadrozinski - Update on Punch-through measurements
Gianluigi Casse - Investigation of accelerated and room temperature annealing of irradiated silicon sensors with CC(V)

12.30 p.m.  Discussion

01.00 p.m.  Lunch

02.30 p.m.  SESSION 5: 3D sensors 2 - Characterization  Chair: Claudio Piemonte
Michael Koehler - Comparative Measurements of Irradiated 3D Silicon Strip Detectors with p- and n-Side Readout
Marco Povoli - Investigation of punch-through bias in 3D sensors
Andrea Cristofoli - Capacitance and breakdown measurements on virgin and neutron irradiated 3D DDTC and STC diodes
Juan-Pablo Balbuena - Simulation of 3D detectors

03.50 p.m.  Coffee

04.10 p.m.  SESSION 6: 3D sensors 3 - Characterization  Chair: Cinzia Da Via
Alessandro La Rosa - Recent results from lab-test measurements with irradiated 3D FBK-irst pixel sensors
Andrea Micelli - 3D-FBK Pixel sensors: recent beam test results with irradiated devices
Vito Manzari - Test beam results of 3D and epitaxial sensors flip-chip bonded to the ALICE pixel front-end chip
Ozhan Koybasi - Advances in 3D Silicon Detectors with CMS Pixel Readout

05.30 p.m.  Discussion

06.30 p.m.  Adjourn

08.00 p.m.  Dinner at the "Scrigno del Duomo" Restaurant, Trento
http://www.scrignodelduomo.com
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PROGRAMME
MARCH 4, 2011

09.30 a.m. SESSION 7: Applications - Chair: Alessandro La Rosa
Mara Bruzzi - Recent Results with a p-type bidimensional Si Dosimeter for Intensity Modulated Radiotherapy
Margherita Obertino - Another LHC application of 3D sensors: the HPS project
Themis Bowcock - LHCb VELO - First Year of Operation

10.30 a.m. Coffee

10.50 a.m. SESSION 8: Invited talks - Chair: Gian-Franco Dalla Betta
Sherwood Parker - Increased speed: 3D sensors, fast current amplifiers
Harris Kagan - Radiation Hardness Studies of Diamond for Tracking Applications

12.00 a.m. Discussion

12.50 p.m. Adjourn, Conference closing

01.00 p.m. Lunch

02.00 p.m. Visit to the FBK laboratories (optional) - Chair: Maurizio Boscardin

03.00 p.m. End