

Tenth Intl. Workshop on Pixel Detectors for Particles and Imaging

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Book of Abstracts

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A derivation of the electric field inside MAPS detectors from beam-test data and limited TCAD simulations

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A readout chain from module to LpGBT

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Medical Imaging, CCDs, Detectors for IR, and Direct electron detection / 142

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Progress in Cooling, Mechanics, and Powering of Pixel Detectors / 164

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Development of SiPM detectors: technological solutions

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Other scientific applications / 132

Development of the BCM' system for beam abort and luminosity monitoring at the HL-LHC based on a polycrystalline CVD diamond pixelated system and dedicated front-end ASIC

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Medical Imaging, CCDs, Detectors for IR, and Direct electron detection / 57

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Experimental Study and Empirical Modeling of Long Term Annealing of the ATLAS18 Sensors

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Extremely high density and position resolution digital pixel sensors

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First results of the prototype EDET DH80k system

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From vertex detectors to applications in ion detection and spectrometry: a glimpse of MAPS R&D in Strasbourg

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New pixel materials and configurations / 49

Germanium CCDs

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Hadron damage investigation of FBK and HPK low gain avalanche detectors

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Medical Imaging, CCDs, Detectors for IR, and Direct electron detection / 55

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IC development for photon science

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Progress in Cooling, Mechanics, and Powering of Pixel Detectors / 47

LHCb module assembly

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Pixel electronics / 137

MIRA: a low-noise photon-counting ASIC with 35 μm pixel pitch

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Fast timing / 160

MONOLITH - picosecond time stamping capabilities in fully monolithic highly granular silicon pixel detectors

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Progress in Cooling, Mechanics, and Powering of Pixel Detectors / 174

MVTX: A MAPS Vertex Tracker for sPHENIX at RHIC

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Fast timing / 159

MoTiC: Prototype of a Monolithic Particle Tracking Detector with Timing

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Monitoring Quality of ATLAS ITk Strip Sensors/wafers through Database

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Monolithic sensors for proton therapy

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New DePFET technology

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Novel Detectors for Tracking and Timing

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Optimization of a 65 nm CMOS imaging technology for monolithic sensors for high energy physics

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Overview on current state of the art pixel mechanics for the upgrade tracking detectors at the ATLAS and CMS experiments

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Pixel detector developments for future lepton colliders

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Pixel sensor characterization

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Fast timing / 30

Precision timing with silicon detectors

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Progress in Cooling, Mechanics, and Powering of Pixel Detectors

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New pixel materials and configurations / 69

Progress in diamond detectors

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Results from RD53

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Progress in Cooling, Mechanics, and Powering of Pixel Detectors / 150

Serial powering for ATLAS ITk pixel modules

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SiPM characterization for SBC dark matter search

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Simulated performance and calibration of CMS Phase-2 Upgrade Inner Tracker sensors

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Medical Imaging, CCDs, Detectors for IR, and Direct electron detection / 134

Simulation study of pulse height difference between pixel patterns of X-ray CCDs onboard the XRISM satellite

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Study of numerical algorithms used for calibration of Timepix time detectors working in ToT mode

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Summary and outlook

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TROPIX: A fast parametric tool reproducing the output of pixel detectors

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Testing a prototype of 8x8x32 mm³ CdZnTe detector array

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The ALICE PIXEL Readout Upgrade

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The ALICE Pixel Sensor Upgrade

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The ATLAS Pixel Upgrade

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The BELLEII Pixel Upgrade

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The CMS Pixel Upgrade

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The LHCb Mighty Tracker

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The monolithic ASIC for the high precision preshower detector of the FASER experiment at the LHC

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TimeSPOT ASIC developments for 4D-pixel readout

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Tracker alignment in CMS: interplay with local pixel reconstruction

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Ultrafast X-ray Imaging

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VELO Upgrade II- the LHCb 4D Pixel Detector

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Vertically Aligned Carbon Nanotubes as Pixel Detector Substrate

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X-ray polarization measurements with CMOS for satellites

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YARR DAQ Software for ATLAS ITk Pixel and Strip detectors

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