

PM2018 - 14th Pisa Meeting on Advanced Detectors

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Book of Abstracts

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Welcome Addresses & Opening Talk / 1

The APPEC roadmap for Astroparticle Physics, experiments and detectors

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Detector Techniques for Cosmology, Astroparticle and Fundamental Physics / 2

The Imaging X-ray Polarimetry Explorer (IXPE)

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Detector Techniques for Cosmology, Astroparticle and Fundamental Physics / 3

HERMES: An ultra-wide band X and gamma-ray transient monitor on board a nano-satellite constellation

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Detector Techniques for Cosmology, Astroparticle and Fundamental Physics / 4

A compact low threshold gamma-ray detector composed of LaBr₃ and SiPMs for GECAM

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Detector Techniques for Cosmology, Astroparticle and Fundamental Physics / 5

S1-Poster Review

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Detector Techniques for Cosmology, Astroparticle and Fundamental Physics / 6

The HEPD detector on board CSES satellite: in-flight performance

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Detector Techniques for Cosmology, Astroparticle and Fundamental Physics / 7

High-energy e-/e+ spectrometer via coherent interaction in a bent crystal

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Detector Techniques for Cosmology, Astroparticle and Fundamental Physics / 8

Darkside-20k and the future Liquid Argon Dark Matter program

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Detector Techniques for Cosmology, Astroparticle and Fundamental Physics / 9

KM3NeT : next-generation neutrino telescope under the Mediterranean Sea

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Detector Techniques for Cosmology, Astroparticle and Fundamental Physics - Poster Session / 10

The detectors of the SHiP experiment at CERN

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Welcome Addresses & Opening Talk / 11

FDFP welcome address & Opening Talk

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Welcome Addresses & Opening Talk / 12

Organizing committee welcome

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The Phase-2 ATLAS ITk Pixel Upgrade

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The CMS Tracker Upgrade for the High Luminosity LHC

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The LHCb VELO Upgrade

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Cold Electronics system for ProtoDUNE-SP LAr-TPC

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The development of the Icarus T600 laser diode calibration system

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A compact Time-Of-Flight detector for radiation measurements in a space habitat: the LIDAL detector

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An observation-simulation and analysis framework for the Imaging X-ray Polarimetry Explorer (IXPE)

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High precision mapping of single-pixel Silicon Drift Detector for application in astrophysics and advanced light source

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Detector setup of the VIP2 Underground Experiment at LNGS

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Plastic scintillator detector array for detection of cosmic ray air shower

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Another step in photodetection innovation: the 1-inch VSiPMT prototype

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Measurement of the Response of Silicon Photomultipliers from Single Photon Detection to Saturation

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The upgraded beam monitor system for the FAMU experiment at RIKEN-RAL

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Optimal Design of Plastic Scintillator Counter with Multiple SiPM Readouts for Best Time Resolution

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Optimized MPGD-based photon detectors for high momentum particle identification at the Electron-Ion Collider.

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TORCH: a large area time-of-flight detector for particle identification

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Analysis of the Performance of Photon Detection Methods Using Silicon Photomultiplier in the Application with High Throughput Requirements

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A low energy x-ray Compton polarimeter prototype

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Use of silicon photonics wavelength multiplexing techniques for fast parallel readout in high energy physics

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Operational Evaluation of Silicon Photomultiplier Based Prototype Detector Modules Installed in the MAGIC Telescopes

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The Barrel DIRC detector of PANDA

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Evaluation of a hybrid pixel detector prototype for time resolved experiments at the ODE beamline of the SOLEIL Synchrotron

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The Endcap Disc DIRC detector of PANDA

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Characterization of VUV-sensitive SiPMs for nEXO

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Application of Silicon Photomultiplier Model to the Design of Front-End Electronics

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Proton flux monitor(s) for the UA9 Experiment

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New Ultra-High cell-Density Silicon Photomultipliers with improved performance

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Design of the microchannel plate photomultiplier tube for applications in strong magnetic fields

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A novel bowl-shape microchannel plate with high electron collection efficiency and good time resolution

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The 'Gen-II' LAPPDTM: Large-Area Ceramic-Body Planar MCP-based Photo-Detectors: Large-Area Ceramic-Body Planar MCP-based Photo-Detectors

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MCP-PMT production for Belle II TOP detector and further R&D

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Modelling of picosecond timing signals from fast vacuum photo-diodes

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Monte Carlo Modelling of Optical Crosstalk in Silicon Photomultipliers

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A SiPM based cryogenic Photo Detector Module for dark matter searches OK

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PID techniques and performance at LHCb in Run 2

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A large silicon photomultiplier for the readout of barium fluoride scintillation light

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Neutrino-Antineutrino Identification in a Liquid Scintillator Detector: towards a novel decay-at-rest-based neutrino CPV framework

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Advancements and plans for LHC upgrade detector thermal management with CO₂ evaporative cooling

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ATLAS “Baby-DEMO”

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Advanced Through Silicon Vias for Hybrid Pixel Detector Modules

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Silicon Photomultiplier Detector with Multipurpose In-Pixel Electronics in Standard CMOS Technology

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New results on the FBK-INFN-LPNHE thin n-on-p pixel detectors for the upgrade of the ATLAS Inner Tracker

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Characterisation of the radiation hardness of HV-CMOS sensors using the Transient Current Technique

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Low Gain Avalanche Diodes for Precision Timing in the CMS End-cap

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Precision Timing Capabilities of Silicon Pad Sensors in the CMS HGCAL

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Operational Experience and Performance with the ATLAS Pixel detector at the Large Hadron Collider

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Modeling Radiation Damage to Pixel Sensors in the ATLAS Detector

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Event Upsets in the ATLAS IBL Frontend ASICs

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The XAFS Fluorescence Detector System based on 64 Silicon Drift Detectors for the SESAME Synchrotron Light Source.

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Characterization of a depleted monolithic pixel sensors in 150 nm CMOS technology for the ATLAS Inner Tracker upgrade

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Advances on TCAD numerical modeling of radiation damage effects in silicon detectors for HL-LHC operations

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Performance and Operation of the CMS Phase 1 Pixel Detector

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ATLAS ITk Strip Detector for High-Luminosity LHC

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Characterization Results of HVCMOS Sensors for Mu3e and ATLAS

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MuPix8 –Large Area Monolithic HVCMOS Pixel Detector for the Mu3e Experiment

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Monolithic Sensors in LFoundry Technology: Concepts and Measurements

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Radiation hardness investigation of thin and low resistivity bulk silicon detectors

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Development of an automated and programmable characterization system for silicon multi-strip sensors

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Combined TCAD and Geant4 simulations of diamond detectors for timing applications

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Low temperature characteristics of SIPMs after very high radiation for the SLHC CMS phase II upgrade

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Performance results of the trigger logic implemented in EUSO-SPB

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Design of a high radiation-hard driver for Mach-Zehnder Modulators based high-speed links for hadron collider applications

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Scintillation light DAQ and trigger system for the ICARUS T600 experiment at Fermilab

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Data acquisition system for the EDET DH80k instrument

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The MYTHEN-III strip detector prototypes

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Low Latency serial communication for MEG II Trigger system

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Front-end electronic system for large area photomultipliers read-out

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A low cost, high speed, multichannel Analog to Digital converter board

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High performance DAQ for muon spectroscopy experiments

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First test results of the CHIPIX65 asynchronous front-end connected to a 3D sensor

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Testing and integration of front end electronics for INO-ICAL RPCs

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Radiation study of FPGAs with neutron beam for the COMET Phase-I

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Software framework architecture for the high data rate soft X-rays PERCIVAL imager

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Mu2e calorimeter readout electronic

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Level-1 track finding with an all-FPGA system at CMS for the HL-LHC

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Design of the ATLAS phase-II hardware based tracking processor

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Design and test of the calibration system of the MEGII Pixelated timing Counter

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Front-End Electronics of the Electromagnetic Barrel-Calorimeter for the PANDA Target Spectrometer*

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The algorithm of the CMS Level-1 Overlap Muon Track Finder trigger

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The new trigger/GPS module for the EEE Project

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Trigger Performance Verification and Simulation of the Flash-Cam Prototype Camera

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Silicon Drift Detectors arrays and readout ASICs for the SIDDHARTA experiment

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Self-Contained Configuration Scrubbing in Xilinx FPGAs for On-detector Applications

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Characterization and first field results of a new 64ch custom front-end ASIC for GEM readout

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Development of a high voltage power supply for detectors using photo-diode

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Performance of a high-throughput tracking processor implemented on Stratix-V FPGA

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A new readout electronics for the LHCb Muon Detector Upgrade

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Muon g-2 Calibration system data flow

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Operation of Microchannel Plate PMTs with TOFPET multichannel timing electronics

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Design and performance evaluation of front-end electronics for COMET straw tracker

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The Monitoring Electronics of the Laser Calibration System in the Muon g-2 experiment

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The performance of the CMS ECAL data acquisition system at LHC Run 2

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