PM2018 - 14th Pisa Meeting on Advanced Detectors

Sunday 27 May 2018 - Saturday 02 June 2018
La Biodola - Isola d’Elba (Italy)

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FDFP welcome address & Opening Talk

FERMILAB

Fast Neutron detectors with silicon photomultiplier readouts

First Experience with the Belle II Aerogel RICH Detector

First experience with the Belle II radiation monitoring system based on s-CVD diamonds

First results of measurements of spectrum and angular distribution of transition radiation using a silicon pixel sensor on a TimePix3 chip

First test results of the CHIPPIX65 asynchronous front-end connected to a 3D sensor

First-Level Muon Track Trigger for Future Hadron Collider Experiments

Forward hadron calorimeter at MPD/NICA

Fraunhofer

From the Phase-0 DAQ upgrade of entire ATLAS Pixel Detector towards the Phase-2 electronics upgrade

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

Front-end electronic system for large area photomultipliers readout

Gamma beam collimation system and profile imager for ELI-NP

HARPO, a gas TPC active target for high-performance gamma-ray astronomy; demonstration of the polarimetry of MeV gamma-rays converting to e+e- pair

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

High Voltage Stability and Cleaning of 2m² Resistive Strip Micromegas Detectors

High energy resolution thermal microcalorimeters for the HOLMES experiment

High performance DAQ for muon spectroscopy experiments

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A Compton Spectrometer to monitor the ELI-NP beam energy

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A Cylindrical GEM Inner Tracker for the BESIII experiment

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A Fast Timing Micro-Pattern Gaseous Detector for Future Accelerators and TOF-PET

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

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

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

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A double-mesh gaseous structure developed with a thermal bonding technique for single electron detection

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A fast and quasi-non invasive muon beam monitoring detector working at the highest beam intensity in the world

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A feasibility test run for the MUonE project

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A frequency domain multiplexing system to readout the TES bolometers on the LSPE/SWIBE experiment

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A gamma calorimeter for the monitoring of the ELI-NP beam

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

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

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A low energy x-ray Compton polarimeter prototype

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A new compact tracker for ultrafast secondary neutrons produced in light ions therapy

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A new readout electronics for the LHCb Muon Detector Upgrade

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Gas Detectors - Poster Session / 292

A new type of RPC with very low resistive plates

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Photo Detectors and PID - Poster Session / 141

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

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A novel neutron detector for 3-He replacement in environmental applications

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A pixelated Faraday cup for proton beam diagnostics
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AM07: Characterization of the Novel Associative Memory Chip Prototype Designed in 28 nm CMOS Technology for High Energy Physics and Interdisciplinary Applications

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ATLAS ITk Strip Detector for High-Luminosity LHC

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ATLAS LAr Calorimeter Performance in LHC Run-2

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ATLAS Tile Calorimeter Upgrades for HL-LHC

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ATLAS TileCal LVPS Upgrade Hardware and Testing

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ATLAS “Baby-DEMO”

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Solid State Detectors - Poster Session / 154

Advanced Through Silicon Vias for Hybrid Pixel Detector Modules

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Solid State Detectors - Poster Session / 192

Advanced optical quality assurance of the silicon microstrip sensors of the CBM STS detector

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

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

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Aging Phenomena and Discharge Probability Studies of the triple-GEM detectors for future upgrades of the CMS muon high rate region at the HL-LHC

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An innovative radiation hardened Content-Addressable Memory

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

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

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

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Attract

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Calorimetry - Poster Session / 204

**Beam Tests on the ATLAS Tile Calorimeter Demonstrator Module**

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**C++ implementation of Bethe-Heitler, 5D, Polarized, $\gamma \rightarrow e^+e^-$ Pair Conversion Event Generator**

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**CALPRO, an unconventional calorimetry approach**

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**CERN**

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Detector Techniques for Cosmology, Astroparticle and Fundamental Physics - Poster Session / 94

**CHEC - a Compact High-Energy Camera for the Cherenkov Telescope Array**

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**CHNET_TANDEM experiment: Use of Negative Muons at Port4 of the RIKEN-RAL for elemental characterization of “Nuragic votive ship” samples**

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CMS ECAL Calibration & Alignment

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CUORE: the first bolometric experiment at the ton scale for rare decay searches

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CUPID-0, challenges and achievements in the struggle of 0-background double-beta decay experiments

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Cadmium Manganese Telluride versus Cadmium Zinc Telluride for X-ray detectors

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Calibration of the calorimeter signal waveform in the SND detector

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Calibration, Commissioning, and Operation of the Time Of Propagation PID Detector at the Belle II Experiment

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Application to Life Sciences and Other Challenges / 63

Calorimeter prototyping for the iMPACT project pCT scanner

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

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Characterization Results of HVCMOS Sensors for Mu3e and AT-LAS

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Front, Trigger, DAQ and Data Management - Poster session / 359

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

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Photo Detectors and PID - Poster Session / 118

Characterization of FBK NUV-HD SiPMs for the pSCT camera proposed for the CTA experiment

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Cryogenic / Supeconductive Devices - Poster Session / 228

Characterization of SiPM arrays with common bias and common readout for applications in liquid argon

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Photo Detectors and PID - Poster Session / 136

Characterization of VUV-sensitive SiPMs for nEXO

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Solid State Detectors - Poster Session / 166

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

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Detector Techniques for Cosmology, Astroparticle and Fundamental Physics - Poster Session / 97

Characterization of a prototype silicon drift detector system for the TRISTAN project

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Solid State Detectors - Poster Session / 193

Charge sharing of single photons in finely segmented pixel detectors

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Charged particle timing at sub-25 picosecond precision: the PICOSEC detection concept

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Cold Electronics system for ProtoDUNE-SP LAr-TPC

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Combined Optical and Electronic Readout for Event Reconstruction in a GEM-based TPC
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Solid State Detectors - Poster Session / 175

Combined TCAD and Geant4 simulations of diamond detectors for timing applications
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Gas Detectors - Poster Session / 286

Commissioning and performance of the GE1/1 slice test detectors
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Cryogenic / Superconductive Devices - Poster Session / 230

Commissioning of a Si(Li) Compton polarimeter
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Calorimetry - Poster Session / 213

Compact Calorimeters with Oriented Crystals
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Gas Detectors - Poster Session / 311

Comparative study of triple and quadruple GEM detectors and effect of drift field on the electron transparency
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Front, Trigger, DAQ and Data Management - Poster session / 316

Computing Infrastructure at the CERN Neutrino Platform prototypes experiments
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**Cryogenic / Supeconductive Devices - Poster Session / 224**

**Cryogenic Light Detectors for Rare Event Searches**

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**Cryogenic / Supeconductive Devices - Poster Session / 223**

**Cryogenic electronics for photosensors operating in Liquid Xenon**

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**Cryogenic / Supeconductive Devices / 48**

**Cryogenic light detectors for background suppression: the CALDER project.**

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**DECAL: Digital Calorimetry using DMAPs sensors**

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**DEPFET pixel detector in the Belle II experiment**

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

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Data acquisition system for the EDET DH80k instrument

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Deep learning to study the noise in gravitational wave interferometers

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Design and Construction of Integrated Small Diameter Drift Tube Chambers and Thin-Gap Resistive Plate Chambers for the Phase-I Upgrade of the ATLAS Muon Spectrometer

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Design and Preliminary Characterization Results of BASIC64, a New Mixed-Signal ASIC for SiPM Detectors

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

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Design and performance studies of the calorimeter system for a FCC-hh experiment

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**Design and test of the Mu2e undoped CsI + SiPM crystal calorimeter**

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

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Detector Techniques for Cosmology, Astroparticle and Fundamental Physics - Poster Session / 106

**Design of a SiPM-based cluster for the Large Size Telescope camera of CTA**

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Gas Detectors - Poster Session / 300

**Design of a gaseous beam monitor device using a GPU based simulation code**

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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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**Design of the ATLAS phase-II hardware based tracking processor**

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Gas Detectors - Poster Session / 281

Design of the FCC-hh Muon Detector and Trigger System

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

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Detection of Vacuum Ultra-Violet light by means of SiPMs with and without a wave-length shifter coating for High Energy Physics experiments

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Calorimetry - Poster Session / 218

Detector performance studies for the CMS High Granularity Calorimeter

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Detector Techniques for Cosmology, Astroparticle and Fundamental Physics - Poster Session / 111

Detector setup of the VIP2 Underground Experiment at LNGS

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Solid State Detectors - Poster Session / 183

Development and commissioning of the 30 ps time resolution MEGII Pixelated Time detector

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Development of Graphene-Based Ionizing Radiation Sensors

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Development of Ultra Fast Silicon Detector for 4D tracking

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

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Development of a highly selective muon trigger exploiting the high spatial resolution of monitored drift-tube chambers for the ATLAS experiment at the HL-LHC

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

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Development of an ultra thin monitor for charged particle beams

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Development of gaseous particle detectors based on semi-conductive plate electrodes

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Application to Life Sciences and Other Challenges - Poster Session / 239

Development of high-resolution Compton camera for prompt gamma-ray imaging during proton therapy

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Development of innovative PET module with Depth of Interaction and Timing capabilities

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Development of new compact neutron camera for safe proton therapy

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Development of the ATLAS Liquid Argon Calorimeter Readout Electronics for the HL-LHC

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Solid State Detectors - Poster Session / 180

Development of the proton beam monitor based on the thin diamond crystal for the COMET Experiment

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Solid State Detectors - Poster Session / 157
Development of the radiation hard high-speed monolithic “MALTA” CMOS sensor for the ATLAS ITK outer pixel layer

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Direct Measurement of Optical Cross-Talk in SiPMs Using Light Emission Microscopy

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Direct Search for WIMP Dark Matter particles with the LUX-ZEPLIN (LZ) detector

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Dual-Stage Gas Proportional Scintillation Counter - New Developments

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EUSO-SPB1: in-flight performance

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Einstein Telescope

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Evaluation of LFS continuous scintillation crystals for PET 1
Evaluation of a ZnS:6LiF based scintillation neutron detector at high counting rates

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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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Evaluation of a novel photon-counting CT system using 16-ch MPPC array for multicolor 3D imaging

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Evaluation of double-sided silicon microstrip sensors as tracker components for FOOT experiment

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Event Upsets in the ATLAS IBL Frontend ASICs

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Experimental ion mobility measurements for the LCTPC Collaboration

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Cryogenic / Superconductive Devices - Poster Session / 233

**Experimental study of the propagation of scintillation light in liquid argon**

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**FATALIC: a fully integrated electronics for the ATLAS tile calorimeter at the HL-LHC**

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Welcome Addresses & Opening Talk / 11

**FDFP welcome address & Opening Talk**

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**Fast Neutron detectors with silicon photomultiplier readouts**

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**First Experience with the Belle II Aerogel RICH Detector**

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Solid State Detectors - Poster Session / 188

**First experience with the Belle II radiation monitoring system based on s-CVD diamonds**

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First results of measurements of spectrum and angular distribution of transition radiation using a silicon pixel sensor on a TimePix3 chip

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

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First-Level Muon Track Trigger for Future Hadron Collider Experiments

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Forward hadron calorimeter at MPD/NICA

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From the Phase-0 DAQ upgrade of entire ATLAS Pixel Detector towards the Phase-2 electronics upgrade

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

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

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Gamma beam collimation system and profile imager for ELI-NP

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HARPO, a gas TPC active target for high-performance gamma-ray astronomy; demonstration of the polarimetry of MeV gamma-rays converting to e+e- pair

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

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High Voltage Stability and Cleaning of 2m^2 Resistive Strip Micromegas Detectors

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High energy resolution thermal microcalorimeters for the HOLMES experiment

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High performance DAQ for muon spectroscopy experiments

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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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High resolution TPC based on optically readout GEM

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

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**Identification of Double-Beta Decay Events in a Liquid Scintillator Detector**

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Gas Detectors - Poster Session / 278

**Impact of Single-Mask Hole Asymmetry on the properties of GEM Detectors**

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Gas Detectors - Poster Session / 305

**Implementation of the code for the simulation of the response of a triple-GEM tracker and its comparison to the experimental data**

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**Improving spatial and PID performance of the high transparency Drift Chamber by using the Cluster Counting and Timing techniques**

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**In-room characterization, using an anthropomorphic phantom, of a novel detector exploiting secondary charged particles emission for on-line dose monitoring in light ions PT treatments**

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Innovation in online hadrontherapy monitoring: an in-beam PET and prompt-gamma-timing combined device.

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Innovative 3D sensitive CdZnTe solid state detector for dose monitoring in Boron Neutron Capture Therapy (BNCT)

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Intense thermal neutron fields based on a medical Linac - The e_LIBANS project

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JUNO Stero-Calorimetry System JUNO

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Josephson radiation sensors via temperature-to-phase conversion

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KALYPSO: linear array detector for high-repetition rate and real-time beam diagnostics

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KM3NeT: next-generation neutrino telescope under the Mediterranean Sea

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Kalman meets Molière: Optimal measurement of charged particle momentum from multiple scattering by Bayesian analysis of filtering innovations

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Large Area Picosecond Photodetector (LAPPD) - Pilot Production and Development Status

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

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

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Low Latency serial communication for MEG II Trigger system  

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Low statistics activity reconstruction methods with the DoPET system  

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

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MACACO II: second prototype of a Compton telescope  

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

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METU Defocusing Beamline Project for the First SEE Tests in Turkey and the Test Results from the METU-DBL Preliminary Setup  

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Gas Detectors / 71

**MPGD-based photon detectors for the upgrade of COMPASS RICH-1 and beyond**

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**MRPC with high time resolution for BESIII**

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**MUON TOMOGRAPHY USING MICROMEGAS DETECTORS: FROM ARCHEOLOGY TO NUCLEAR SAFETY APPLICATIONS**

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**MWPC-based Muographic Observation System for remote monitoring of active volcanoes**

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Gas Detectors - Poster Session / 288

**Measurement and simulation of the background in the CMS muon detectors**

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Photo Detectors and PID - Poster Session / 114

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

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Measurement of the zenith angle distribution of the cosmic muon flux in Abu Dhabi at sea level

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Modeling Radiation Damage to Pixel Sensors in the ATLAS Detector

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Modelization of 3D-silicon Pixels for timing applications

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Modelling of picosecond timing signals from fast vacuum photodiodes

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Monolithic Sensors in LFoundry Technology: Concepts and Measurements

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Monte Carlo Modelling of Optical Crosstalk in Silicon Photomultipliers

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Monte Carlo Response Function Simulations for the HEXITEC CdTe X-ray Detector

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Mu2e calorimeter readout electronic

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

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Muon g-2 Calibration system data flow

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

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Cryogenic / Superconductive Devices - Poster Session / 237

**New developments in Silicon Photomultipliers for Cryogenic Applications**

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Solid State Detectors - Poster Session / 158

**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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Photo Detectors and PID / 18

**Next generation 3D digital SiPM for precise timing resolution 15’**

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Detector Techniques for Cosmology, Astroparticle and Fundamental Physics - Poster Session / 96

**Novel approaches in low energy threshold detectors for Dark Matter searches**

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**Nuclear Resonant Scattering for Gamma-Beam Characterization procedure at ELI-NP**

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Cryogenic / Superconductive Devices - Poster Session / 235

**OSQAR chameleon afterglow search experiment**

*Corresponding Author: Miroslav Sulc* miroslav.sulc@tul.cz
Operation of Microchannel Plate PMTs with TOFPET multichannel timing electronics

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

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

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Optical Fiber Center Module for the KOTO Experiment

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Optical Properties of TetraPhenylButadiene as wavelength shifter for the detection of VUV scintillation light from liquefied noble gases

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

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Photo Detectors and PID - Poster Session / 121

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

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Welcome Addresses & Opening Talk / 12

**Organizing committee welcome**

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Front, Trigger, DAQ and Data Management - Poster session / 322

**Outcome of the KLOE-2 experiment after the conclusion of the data-taking period**

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Solid State Detectors - Poster Session / 181

**Overview of the CMS beam loss monitoring system (BCML) and the performance the system in 2017**

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Photo Detectors and PID - Poster Session / 149

**PID techniques and performance at LHCb in Run 2**

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Gas Detectors - Poster Session / 299

**Performance and Calibration of 2m² Micromegas Detectors for the ATLAS Muon Spectrometer Upgrade**

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Solid State Detectors - Poster Session / 168
Performance and Operation of the CMS Phase 1 Pixel Detector

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Performance of CATIROC : ASIC for smart readout of large photomultiplier arrays

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Performance of X-rays crystal detectors with SiPM array readout exposed to the RIKEN RAL low energy muon beam

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

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Detector Techniques for Cosmology, Astroparticle and Fundamental Physics - Poster Session / 100

Performance of custom designed inverted coaxial HPGe detectors for GERDA and LEGEND

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Gas Detectors - Poster Session / 282

Performance of proportional counters filled with Xe + 5% TMA under high count rate

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Calorimetry - Poster Session / 208
Performance of shashlyk calorimeter read out by SiPMs with high pixel density

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Detector Techniques for Cosmology, Astroparticle and Fundamental Physics - Poster Session / 101

Performance of the 3x1x1 m3 Dual Phase Liquid argon TPC

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Gas Detectors - Poster Session / 298

Performance of the CMS Muon System in LHC Run-2

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Calorimetry - Poster Session / 211

Performance of the CMS electromagnetic calorimeter in the LHC Run II

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Front, Trigger, DAQ and Data Management - Poster session / 336

Performance results of the trigger logic implemented in EUSO-SPB

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Gas Detectors - Poster Session / 303

Performances of the Multigap Resistive Plate Chambers of the Extreme Energy Events Project

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Detector Techniques for Cosmology, Astroparticle and Fundamental Physics - Poster Session / 112
Plastic scintillator detector array for detection of cosmic ray air shower

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**Poster Review (Experimental Applications)**

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**Poster Review (Photodetector Technologies)**

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**Poster Review (Sensor Design and Technology)**

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**Poster Review (System Construction and Operation)**

**Corresponding Author:** petra.merkel@cern.ch

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Cryogenic / Supeconductive Devices - Poster Session / 231

**Precise measurement of 3D-position of SiPMs in the liquid xenon gamma-ray detector for the MEG II experiment**

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**Precision Clock Distribution for CMS at the HL-LHC**

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Solid State Detectors - Poster Session / 161

**Precision Timing Capabilities of Silicon Pad Sensors in the CMS HGCAL**

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Calorimetry - Poster Session / 199

**Predicting hadron-specific damage from fast hadrons in crystals for calorimetry**

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Detector Techniques for Cosmology, Astroparticle and Fundamental Physics - Poster Session / 92

**Probing the absolute neutrino mass scale with $^{163}$Ho: the HOLMES project**

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Gas Detectors - Poster Session / 276

**Production and Characterization of GEM Foils in India**

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Gas Detectors - Poster Session / 291

**Production and quality control of the new chambers with GEM technology in the CMS muon system**

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Solid State Detectors - Poster Session / 191

**Progress Towards the Development of Cooling Demonstrator of the CBM Silicon Tracking System**

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Protection of the vacuum-working drift chambers with thin-walled tubes (straw) from working gas leakage into vacuum

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ProtoDUNE: prototyping the ultimate medium high energy range (MeV - GeV) neutrino detector

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Proton flux monitor(s) for the UA9 Experiment

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R&D on CO2 cooling using a silicon Microchannel substrate for the LHCb VELO

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RADIATION AND THERMAL STRESS TESTS ON DIAMOND DETECTORS FOR THE RADIAL NEUTRON CAMERA OF ITER

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Radiation Damage Effect on Time Resolution of 6 Series-connected SiPMs for MEG II Positron Timing Counter

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Radiation Damage of LHCb’s Silicon Detector Systems

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Radiation hardness investigation of thin and low resistivity bulk silicon detectors

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

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Radiation tolerance characterization of geiger–mode CMOS avalanche diodes for the design of a dual-layer particle detector

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Radiation-Hard CMOS Monolithic Pixel Sensor Development based on the Column-Drain Architecture for the ATLAS ITK Upgrade

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Readout chain validation of INFN modules for the CTA-pSCT camera

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Real-Time Measurement System with Automatic Gain Detection and Autocalibration for Silicon Photomultipliers

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Real-time wireless personal dosimeter for Interventional Radiology Procedures.

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Recent achievements in Life Sciences of the TwinMic soft spectromicroscopy beamline at Elettra

Recent developments in the CBC3, a CMS micro-strip readout ASIC for track-trigger modules at the HL-LHC

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Reconstruction at 30 MHz for the LHCb upgrade.

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Calorimetry - Poster Session / 201
Robustness studies of the Photomultipliers reading out TileCal, the central hadron calorimeter of the ATLAS experiment

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S1-Poster Review

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S4 - Poster Review

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S5 - Poster Review

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S6 - Poster Review

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S7-Poster Review 25’

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S8 - Poster Review 2

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Application to Life Sciences and Other Challenges - Poster Session / 254

SENSE - Ultimate Low Light-Level Sensor Development

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Detector Techniques for Cosmology, Astroparticle and Fundamental Physics - Poster Session / 95

Scintillation detectors for TAIGA experiment

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

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Searching for Low Mass Dark Matter with the SuperCDMS SNO-LAB Detectors

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Searching for a dark photon with PADME at LNF: status of the active diamond target

Corresponding Author: federica.oliva@le.infn.it
Selecting and Designing the Front-end Amplifier for High-gain Photomultiplier Detectors with Optimal Timing Performance

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

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Shashlik calorimeters for the ENUBET tagged neutrino beam

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SiPM-based PET detector module for a 4π span scanner

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Silicon Drift Detectors arrays and readout ASICs for the SIDDHARTA experiment

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

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Silicon Photomultipliers Applied to Fluorescence Detection of Biomarkers

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Gas Detectors - Poster Session / 294

Small-Strip Thin Gap Chambers for the Muon Spectrometer Upgrade of the ATLAS Experiment

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Small-pad Resistive Micromegas for high rate environment: Performance of different resistive protection concepts

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Front, Trigger, DAQ and Data Management - Poster session / 348

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

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Detector Techniques for Cosmology, Astroparticle and Fundamental Physics - Poster Session / 89

Space fluorescence detection of ultra-high energy cosmic rays based on CORSIKA simulation

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Gas Detectors - Poster Session / 273

Spatial resolution of triple-GEM detectors

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Photo Detectors and PID - Poster Session / 145
Spatial time resolution of MCP–PMTs as a time reference with sub-4 picoseconds precision

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Gas Detectors / 77

Spherical proportional counters: development, improvement and understanding

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Solid State Detectors - Poster Session / 185

Status of the vertex detector program of the CBM experiment at FAIR

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Gas Detectors - Poster Session / 296

Studies of the MicroMegas performances using the SM1 prototype with data recorded at the Cosmic Ray Stand of LNF

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Gas Detectors - Poster Session / 271

Study of performances of a straw tube detector with high rate

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Gas Detectors - Poster Session / 272

Study of stability of gain and energy resolution for GEM detector

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Gas Detectors - Poster Session / 290
Study of uniformity of characteristics over the surface for triple GEM detector

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Cryogenic / Supeconductive Devices - Poster Session / 227

Study on breakdown voltage, quenching resistance and gain from room temperature down to 50 K

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Solid State Detectors - Poster Session / 156

Systematic Modeling and Simulations with Analytical Solutions of Electric and Weighting Fields of 2D-Planar-Electrode and 3D-Trench-Electrode Detectors and Detector Array in Cartesian and Cylindrical Coordinates

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Photo Detectors and PID - Poster Session / 126

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

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Round Table - Evolution of Research Infrastructures for Frontier Physics and the Need of Cutting-Edge Technologies / 54

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Technologies for Future Vertex and Tracking Detectors at CLIC

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Solid State Detectors - Poster Session / 196

Technology Experience in the Construction of Silicon Trackers Detectors for Space Experiments

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Application to Life Sciences and Other Challenges - Poster Session / 249

Test beam facilities at BINP

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Calorimetry - Poster Session / 215

Test beam results of a Silicon-PhotoMultiplier based Dual-Readout Calorimeter module

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Test of a New Octal Amplifier Shaper Discriminator Chip for the ATLAS MDT Chambers at HL-LHC

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Test of new Eco-Gas mixtures for the Multigap Resistive Plate Chambers of the EEE Project

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Test results and prospects for RD53A, a large scale 65 nm CMOS chip for pixel readout at the HL-LHC

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Test results of 3D fine-grained scintillator detector prototype for a T2K ND280 neutrino active target

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

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The APPEC roadmap for Astroparticle Physics, experiments and detectors

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Photo Detectors and PID - Poster Session / 131

The Barrel DIRC detector of PANDA

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The Belle II Silicon Vertex Detector

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The Belle II Vertex Detector Integration

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Calorimetry / 41
The CMS High Granularity Calorimeter for the High Luminosity LHC

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The CMS Level-1 tau lepton and vector boson fusion triggers for the LHC Run II

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The CMS Tracker Upgrade for the High Luminosity LHC

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The Endcap Disc DIRC detector of PANDA

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Solid State Detectors - Poster Session / 190

The Gigatracker detector of the NA62 experiment at CERN SPS

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Detector Tecniques for Cosmology, Astroparticle and Fundamental Physics / 6

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

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Cryogenic / Supeconductive Devices - Poster Session / 232

The ICARUS T600 detector overhaul at CERN
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Application to Life Sciences and Other Challenges - Poster Session / 260

The INSIDE bimodal system for range monitoring in particle therapy toward clinical validation

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The Imaging X-ray Polarimetry Explorer (IXPE)

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The LHCb VELO Upgrade

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The LUCID-2 detector

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Front, Trigger, DAQ and Data Management - Poster session / 340

The MYTHEN-III strip detector prototypes

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

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Calorimetry - Poster Session / 222

The Mu2e calorimeter: QA of production crystals and SiPMs and results from Module-0 test beam

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Gas Detectors - Poster Session / 287

The Multi-Blade 10B-based neutron detector

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Photo Detectors and PID - Poster Session / 133

The PANDA barrel-TOF detector at FAIR

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The Phase-2 ATLAS ITk Pixel Upgrade

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Front, Trigger, DAQ and Data Management - Poster session / 328

The Phase-I Trigger Readout Electronics Upgrade of the ATLAS Liquid Argon Calorimeters

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The Projectile Spectator Detector for measurement of geometry of heavy ion collisions at the CBM experiment at FAIR

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The Restoration of Early Sound Recordings using Optical Metrology and Image Analysis

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Solid State Detectors / 29

The Silicon Tracking System of the CBM experiment at FAIR

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The TORCH PMT, a close packing, long life MCP-PMT for Cherenkov applications with a novel high granularity multi-anode

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Solid State Detectors - Poster Session / 165

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

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Photo Detectors and PID - Poster Session / 142

The ‘Gen-II’ LAPPD™: Large-Area Ceramic-Body Planar MCP-based Photo-Detectors: Large-Area Ceramic-Body Planar MCP-based Photo-Detectors

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

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Calorimetry / 40
The calibration system for the g-2 calorimeters

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The calorimeters of the PADME experiment

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Detector Techniques for Cosmology, Astroparticle and Fundamental Physics - Poster Session / 103

The charged particle veto system of the PADME experiment

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Gas Detectors - Poster Session / 309

The construction technique of the new MEG2 tracker

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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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Detector Techniques for Cosmology, Astroparticle and Fundamental Physics - Poster Session / 90

The development of the Icarus T600 laser diode calibration system

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Detector Techniques for Cosmology, Astroparticle and Fundamental Physics - Poster Session / 107
The double turn method based on mono-chromatic positrons for the measurement of the MEGII spectrometer resolutions

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Detector Techniques for Cosmology, Astroparticle and Fundamental Physics - Poster Session / 98

The downstream Muon detector of the SHiP experiment

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Calorimetry - Poster Session / 217

The first large calorimeter based on Lanthanum Bromide coupled to Silicon Photomultipliers: Status and Predictions

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The investigation on the dark sector at the PADME experiment

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The micro-Resistive WELL detector for the phase 2 upgrade of the LHCb muon detector

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Solid State Detectors - Poster Session / 177

The new Fast Beam Condition Monitor using diamond and silicon sensors for luminosity measurement at CMS

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The new Inner Tracking System for the ALICE upgrade at LHC

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The new drift chamber of the MEG II experiment

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Application to Life Sciences and Other Challenges - Poster Session / 263

The new sample preparation line for radiocarbon measurements at the INFN Bari laboratory

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Front, Trigger, DAQ and Data Management - Poster session / 355

The new trigger/GPS module for the EEE Project

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Front, Trigger, DAQ and Data Management - Poster session / 367

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

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Gas Detectors - Poster Session / 306

The tracking system for the IDEA detector at future lepton colliders

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Gas Detectors / 69

The upgrade of the ATLAS Muon System for High-Luminosity LHC
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Calorimetry - Poster Session / 210

The upgrade of the CMS PbWO₄ crystal electromagnetic calorimeter for the HL-LHC and prospects for precision timing resolution

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Photo Detectors and PID - Poster Session / 115

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

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Application to Life Sciences and Other Challenges - Poster Session / 255

The ΔE-TOF detector of the FOOT experiment: experimental tests and Monte Carlo simulations

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Cryogenic / Superconductive Devices - Poster Session / 229

Thermal kinetic inductance detectors for soft X-ray spectroscopy

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Gas Detectors - Poster Session / 307

Timing studies of a bakelite multi-gap resistive plate chamber

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Front, Trigger, DAQ and Data Management - Poster session / 334

Towards new Front-End Electronics for the HADES Drift Chamber System
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Front, Trigger, DAQ and Data Management - Poster session / 324

Towards the large area HVCMOS demonstrator for ATLAS ITk

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Front, Trigger, DAQ and Data Management - Poster session / 356

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

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Gas Detectors - Poster Session / 275

Ultra long-lived particles searches with MATHUSLA

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Gas Detectors - Poster Session / 280

Upgrade of the ATLAS Muon Spectrometer with new Small-Diameter Drift-tube Chambers

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Front, Trigger, DAQ and Data Management - Poster session / 318

Upgrade of the ATLAS detectors and trigger at the High Luminosity LHC: tracking and timing for pile-up suppression

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Photo Detectors and PID - Poster Session / 122

Upgrade of the Time-of-Flight system of the CMD-3 detector

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Upgrade of the tracking system of the CMD-3 detector with micro-RWELL technology

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Upgrade plans and aging studies for the CMS muon system in preparation of HL-LHC

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Upgrade program of the RPC system of the CMS Muon Spectrometer

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Upgraded back-end electronics for the CMS Fast Beam Conditions Monitor

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

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WaveDAQ: an highly integrated trigger and data acquisition system

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Front, Trigger, DAQ and Data Management - Poster session / 312

Web-based Experiment Monitoring with HTML5

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Application to Life Sciences and Other Challenges - Poster Session / 259

XRF topography information; simulations and data from a novel SDD system 1’

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maXs: Micro-calorimeter Arrays for High Resolution X-Ray Spectroscopy in Atomic Physics

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