PM2018 - 14th Pisa Meeting on Advanced Detectors

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

Libro de resúmenes
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ATLAS LAr Calorimeter Performance in LHC Run-2

ATLAS Tile Calorimeter Upgrades for HL-LHC

ATLAS TileCal LVPS Upgrade Hardware and Testing

ATLAS “Baby-DEMO”

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FDFP welcome address & Opening Talk

FERMILAB

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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

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First-Level Muon Track Trigger for Future Hadron Collider Experiments

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Fraunhofer

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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 2 Resistive Strip Micromegas Detectors

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High performance DAQ for muon spectroscopy experiments

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

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

IBM

INFN

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

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

JUNO Stero-Calorimetry System JUNO

Josephson radiation sensors via temperature-to-phase conversion

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

KEK

KM3NeT: next-generation neutrino telescope under the Mediterranean Sea

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

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Real-time wireless personal dosimeter for Interventional Radiology Procedures.

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SENSE - Ultimate Low Light-Level Sensor Development

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The detectors of the SHiP experiment at CERN

The development of the Icarus T600 laser diode calibration system

The double turn method based on mono-chromatic positrons for the measurement of the MEGII spectrometer resolutions

The downstream Muon detector of the SHiP experiment

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

The investigation on the dark sector at the PADME experiment

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

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

The new Inner Tracking System for the ALICE upgrade at LHC

The new drift chamber of the MEG II experiment

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

The new trigger/GPS module for the EEE Project

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

The tracking system for the IDEA detector at future lepton colliders

The upgrade of the ATLAS Muon System for High-Luminosity LHC

The upgrade of the CMS PbWO$_4$ crystal electromagnetic calorimeter for the HL-LHC and prospects for precision timing resolution

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

The $\Delta E$-TOF detector of the FOOT experiment: experimental tests and Monte Carlo simulations
Thermal kinetic inductance detectors for soft X-ray spectroscopy

Timing studies of a bakelite multi-gap resistive plate chamber

Towards new Front-End Electronics for the HADES Drift Chamber System

Towards the large area HVCMOS demonstrator for ATLAS ITk

Trigger Performance Verification and Simulation of the FlashCam Prototype Camera

Ultra long-lived particles searches with MATHUSLA

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

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

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

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

WaveDAQ: an highly integrated trigger and data acquisition system

Web-based Experiment Monitoring with HTML5

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

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**6 Linearity and Saturation Properties of Hamamatsu R5912-MOD Photomultiplier Tube for the ICARUS T600 light detection system**

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**77K superconducting electronics based on coherent operation of SQUID arrays for advanced detection in physics 15’**

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**A C-14 beam monitor using silicon solid state sensor for cultural heritage**

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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**

Autor(es) correspondiente(s): cibinetto@fe.infn.it
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/SWIPE experiment

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

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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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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
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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Acknowledgements

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Advanced Through Silicon Vias for Hybrid Pixel Detector Modules

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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

Autor(es) correspondiente(s): sergio.bertolucci@bo.infn.it
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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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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Calorimeter prototyping for the iMPACT project pCT scanner

Autor(es) correspondiente(s): nicola.pozzobon@pd.infn.it

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

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

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

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Characterization of VUV-sensitive SiPMs for nEXO

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

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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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Combined TCAD and Geant4 simulations of diamond detectors for timing applications

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Commissioning and performance of the GE1/1 slice test detectors

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Commissioning of a Si(Li) Compton polarimeter

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Compact Calorimeters with Oriented Crystals

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Comparative study of triple and quadruple GEM detectors and effect of drift field on the electron transparency

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Cryogenic Light Detectors for Rare Event Searches

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Cryogenic electronics for photosensors operating in Liquid Xenon

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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

Autor(es) correspondiente(s): giuliana.fiorillo@na.infn.it
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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**Design of a SiPM-based cluster for the Large Size Telescope camera of CTA**

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**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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**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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**Detector performance studies for the CMS High Granularity Calorimeter**

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**Detector setup of the VIP2 Underground Experiment at LNGS**

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

Autor(es) correspondiente(s): paolo.cattaneo@pv.infn.it
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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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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Development of the proton beam monitor based on the thin diamond crystal for the COMET Experiment

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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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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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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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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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Fraunhofer

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

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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

Autor(es) correspondiente(s): paolo.massarotti@na.infn.it
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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INFN

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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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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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KEK

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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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Solid State Detectors - Poster Session / 160

Low Gain Avalanche Diodes for Precision Timing in the CMS Endcap

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

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**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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New developments in Silicon Photomultipliers for Cryogenic Applications

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

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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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OSQAR chameleon afterglow search experiment

Autor(es) correspondiente(s): 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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Optimized MPGD-based photon detectors for high momentum particle identification at the Electron-Ion Collider.

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Organizing committee welcome

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

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

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PID techniques and performance at LHCb in Run 2

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

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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

Autor(es) correspondiente(s): alessandro.menegolli@pv.infn.it

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

Autor(es) correspondiente(s): federico.lazzari@pi.infn.it

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

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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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Performance of the 3x1x1 m3 Dual Phase Liquid argon TPC

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Performance of the CMS Muon System in LHC Run-2

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Performance of the CMS electromagnetic calorimeter in the LHC Run II

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Performance results of the trigger logic implemented in EUSO-SPB

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

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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)

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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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**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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**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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Question Time

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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

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Reconstruction at 30 MHz for the LHCb upgrade.

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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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S7-Poster Review 25'

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S8 - Poster Review 1

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S8 - Poster Review 2

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Sense - Ultimate Low Light-Level Sensor Development

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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

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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 $4\pi$ 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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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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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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Spherical proportional counters: development, improvement and understanding

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

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TRIUMF

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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-ICALRPCs

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The APPEC roadmap for Astroparticle Physics, experiments and detectors

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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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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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The Gigatracker detector of the NA62 experiment at CERN SPS

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

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The ICARUS T600 detector overhaul at CERN
The INSIDE bimodal system for range monitoring in particle therapy toward clinical validation

The Imaging X-ray Polarimetry Explorer (IXPE)

The LHCb VELO Upgrade

The LUCID-2 detector

The MYTHEN-III strip detector prototypes

The Monitoring Electronics of the Laser Calibration System in the Muon g-2 experiment
The Mu2e calorimeter: QA of production crystals and SiPMs and results from Module-0 test beam

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The Multi-Blade 10B-based neutron detector

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The PANDA barrel-TOF detector at FAIR

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The Phase-2 ATLAS ITk Pixel Upgrade

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

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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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The calibration system for the g-2 calorimeters
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The calorimeters of the PADME experiment
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The charged particle veto system of the PADME experiment
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The construction technique of the new MEG2 tracker
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The detectors of the SHiP experiment at CERN
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The development of the Icarus T600 laser diode calibration system
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The double turn method based on mono-chromatic positrons for the measurement of the MEGII spectrometer resolutions

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The downstream Muon detector of the SHiP experiment

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

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The new trigger/GPS module for the EEE Project

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

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The tracking system for the IDEA detector at future lepton colliders

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The upgrade of the ATLAS Muon System for High-Luminosity LHC
The upgrade of the CMS PbWO₄ crystal electromagnetic calorimeter for the HL-LHC and prospects for precision timing resolution

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

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

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Thermal kinetic inductance detectors for soft X-ray spectroscopy

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Timing studies of a bakelite multi-gap resistive plate chamber

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Towards new Front-End Electronics for the HADES Drift Chamber System
Towards the large area HVCMOS demonstrator for ATLAS ITk

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

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Ultra long-lived particles searches with MATHUSLA

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

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

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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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**Web-based Experiment Monitoring with HTML5**

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**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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