

DAVIDE FIORINA

davide.fiorina@gssi.it · 31/08/1994

Viale Francesco Crispi 7, L'Aquila (AQ) 67100 Italy

I am an experimental particle and astroparticle physicist with a strong detector-instrumentation profile, working across the full lifecycle of an experiment: physics case, detector concept, hardware construction, simulation, data analysis, commissioning, data taking, and operations. My expertise focuses on gaseous detectors MPGD in particular, optical time projection chambers, and fast-timing technologies. My work combines hands-on detector development, analysis and simulation software, and management of experimental collaboration.

I am currently a postdoctoral researcher at the Gran Sasso Science Institute (GSSI) and Technical Coordinator of the ERC-funded CYGNO directional Dark Matter experiment at LNGS. I lead the transition from the R&D prototypes to CYGNO04, a 400 L radiopure physics demonstrator and the largest directional dark-matter detector currently under construction. In this role, I coordinate detector design, procurement, integration, installation, and commissioning, managing physicists, engineers, technicians, industrial suppliers, LNGS services, schedules, and a detector budget of about 1 M€. Within the PRIN-funded HypeX project, I am also developing large-volume triple-GEM TPCs with optical readout for hard X-ray polarimetry, building a research line that bridges underground Dark Matter search and high-energy astrophysics.

Previously, as a CERN Project Associate and INFN postdoctoral researcher in the CMS GEM group, I contributed to the CMS triple-GEM muon-system upgrade and led the Picosec Micromegas R&D programme for the Muon Collider, from detector simulation and beam-induced-background studies to prototype development and test-beam validation.

Current collaborations: CYGNO EXPERIMENT · CYGNUS COLLABORATION (*directional dark matter & low-energy neutrinos*) · EXPO MISSION (*high-energy astrophysics*) · DRD1 (*gaseous-detector R&D*)

Previous collaborations: CMS EXPERIMENT · MUON COLLIDER COLLABORATION (*high-energy particle physics*) · RD51 (*gaseous-detector R&D*)

Education

- 2022 - PhD - [Università degli Studi di Pavia](#) — PhD in Physics of Fundamental Interactions. Thesis title: “[R&D on Triple-GEM detectors for the optimal and safe operation in the CMS experiment](#)”. Final evaluation: Eccellente. Supervisor: Prof. Paolo Vitulo.
- 2018 - Master's Degree - [Università degli Studi di Pavia](#) — Master's Degree in Nuclear Physics, LM-17. Thesis title: “[Advanced Aging Study on Triple-GEMs for GE2/1 & ME0](#)”. Final mark: 110/110 cum laude. Supervisor: Prof. Paolo Vitulo.
- 2016 - Bachelor's Degree - [Università degli Studi di Pavia](#) — Bachelor's Degree in Physics, L-30. Thesis title: “[Measurement of \$\gamma\$ -rays coherent cross section in lead](#)”. Final mark: 101/110. Supervisor: Prof. Paolo Vitulo.

Academic Appointments

- 2023–present - [GSSI, Gran Sasso Science Institute](#) - [Postdoctoral Researcher](#) — Technical Coordinator and project manager of the ERC-funded CYGNO experiment at LNGS. Also active in R&D for optical-readout GEM TPCs for X-ray polarimetry, in-orbit background simulations, and negative-ion-drift R&D.
- 2022–2023 - [CERN](#) - [Project Associate](#) — Selected through a competitive Project Associate call for CMS GEM commissioning and Muon Collider detector R&D. Activities covered on-site CMS operations, CMS Phase-2 GEM upgrade work, and fast timing muon-detector development for the Muon Collider detector.
- 2021–2023 - [INFN Pavia](#) - [Postdoctoral Researcher](#) — Worked on CMS GEM integration and ME0 R&D, with focus on gas-system coordination, discharge mitigation, and magnetic-field operation. Also contributed to PICOSEC Micromegas fast-timing R&D for Muon Collider applications.

Scientific Responsibilities

- [Apr 2026–present](#) - [CYGNUS proto-collaboration](#) — Optical Readout Coordinator for the CYGNUS large-volume directional-detector proposal at Super-Kamiokande.

- [Apr 2025–present - EXPO ESA M8 mission proposal](#) — Coordinator of the in-orbit background simulation activities for the EXPO instrument team.
- [Nov 2024–present - CYGNO experiment](#) — [Technical Coordinator](#) and Project manager of the CYGNO experiment.
- [Nov 2024–present - CYGNO Collaboration](#) — Member of the Steering Committee.
- [Mar 2024–present - CYGNO Collaboration](#) — Member of the Publication Committee.
- [Mar 2022–Mar 2023 - CMS GEM Collaboration](#) — R&D Test-Beam Coordinator for the CMS GEM group.
- [Nov 2021–Sep 2023 - Muon Collider Detector R&D](#) — R&D Coordinator of the PICOSEC Micromegas fast-timing technology for Muon Collider detector studies.
- [Sep 2020–Sep 2023 - CMS GEM Collaboration](#) — CMS GEM Gas System Expert, with L3 responsibility in the CMS GEM organization chart.

Conferences and Bibliometry

- [Updated 23/09/2026 - Scientific presentations](#) — **26** talks at conferences and scientific events, including 11 at international conferences, 12 at workshops, and 3 at national conferences; 12 posters.
Full list of Talks and posters provided at the end of the CV.
- [ORCID and bibliometry](#) — [Scopus](#): 517 publications, 14710 citations by 6525 documents, h-index 61.

Organization of Scientific Meetings

- [2024 and 2027 - DRD1 Gaseous Detectors School](#) — Member of the Local Organizing Committee (LOC) and laboratory manager.
- [2025 - CYGNO Collaboration Meeting](#) — Head of the LOC.
- [2023 and 2025 - Gran Sasso Hands-on PhD Summer School on Experimental Astroparticle Physics](#) — Member of the LOC and laboratory manager.
- [2025 - Frontiers in X-ray Polarimetry Academy](#) — Head of the LOC and member of the Scientific Organizing Committee (SOC).
- [2023 - RD51 Micro-Pattern Gaseous Detectors School](#) — Member of the LOC and laboratory manager.

Teaching Experience

Students Supervision

- [2023–2025 - GSSI, Gran Sasso Science Institute](#) — Co-supervisor of **3** PhD students working in astroparticle physics.
- [2020–2023 - Università degli Studi di Pavia](#) — Supervisor of **1** Bachelor’s student and **1** Master’s student in experimental particle-detector R&D.
- [2019–2023 - CERN](#) — Supervisor of **2** undergraduate CERN Summer Students, each for a three-month project, and **1** graduate CERN Short-Term Internship student for a six-month project.

Lecturing, Tutoring and Laboratory Courses

- [2024/2025 and 2025/2026 - GSSI, Gran Sasso Science Institute](#) — Lecturer for the PhD course “Laboratory of Low-Energy Radiation Measurement”, Astroparticle Physics PhD programme, GSSI. 12 h/year, $\approx$ 8 students.
- [2023 and 2025 - Laboratori Nazionali del Gran Sasso, INFN LNGS](#) — Tutor for the laboratory activities of the Gran Sasso Hands-on PhD Summer School on Experimental Astroparticle Physics. 40 h/year, $\approx$ 4 students.
- [2024 and 2025 - CERN](#) — Tutor for the laboratory course of the DRD1 Gaseous Detectors School. 32 h/year, $\approx$ 30 students.
- [2023 - CERN](#) — Tutor for the laboratory course of the RD51 Micro-Pattern Gaseous Detectors School. 20 h, 24 students.
- [2019/2020 and 2020/2021 - Università degli Studi di Pavia](#) — Seminar lecturer for the course “Nuclear and Sub-Nuclear Physics Laboratory 1”, Department of Physics. 12 h/year, $\approx$ 5 students.
- [2018/2019, 2019/2020 and 2020/2021 - Università degli Studi di Pavia](#) — Tutor for the course “Radioactivity”, Faculty of Medicine and Surgery, Radiology Course. 40 h/year, $\approx$ 50 students.
- [2018/2019, 2019/2020 and 2020/2021 - Università degli Studi di Pavia](#) — Seminar lecturer for the course “Laboratorio 2”, Department of Physics. 12 h/year, $\approx$ 30 students.
- [2017/2018 - Università degli Studi di Pavia](#) — Tutor for the course “Laboratorio 2”, Department of Physics. 40 h/year, $\approx$ 30 students.
- [2017/2018 - Università degli Studi di Pavia](#) — Tutor for the course “Medical Physics”, Faculty of Medicine and Surgery, Harvey Course. 40 h/year, $\approx$ 100 students.
- [2017/2018 - Università degli Studi di Pavia](#) — Tutor for the course “Physics”, Department of Biology and Biotechnology. 40 h/year, $\approx$ 50 students.

Outreach Activities

- [2026–today - INFN LNGS](#) — Official INFN LNGS guide, appointed through comparative procedure 81_2025 for paid scientific visits and introductory seminars. ≈ 100 visitors guided.
- [2025–today - CYGNO Collaboration](#) — Outreach and social-media coordinator for the CYGNO experiment. Instagram channel [cygno.exp](#), with ≈ 20 –60k views/month. Editor and webmaster of the [CYGNO website](#)
- [2025 - Public seminar](#) — Speaker at the public seminar “Caccia all’invisibile: la materia oscura al Gran Sasso”, Clusone (BG), ≈ 200 participants, 17/12/2025.
- [May 2024–present - Scientific consulting](#) — Physics content advisor for [Pumais Due](#), supporting scientific accuracy in Tv series dubbing.
- [Jan 2021–Sept 2023 - CMS guide](#) — Official CMS guide over and underground. ≈ 100 visitors guided.
- [2016–today - European Researchers Night \(SHARPER\)](#) — Staff member for the activities in Pavia and L’Aquila.
- [2022 - CERN High School Student Internship Programme](#) — Tutor for high-school student activities. ≈ 6 h.
- [2018–2021 - TEN DAYS PHYSICS 4 TEENAGERS](#) — Tutor for high-school physics outreach activities. ≈ 12 h/year.
- [2018–2021 - CMS Masterclass](#) — Tutor for particle-physics masterclass activities. ≈ 8 h/year.

Reviewing Activities

- [Apr 2026–present](#) — Regular referee for [EPJ Techniques and Instrumentation](#).
- [Sep 2025–present](#) — Regular referee for the [Journal of Instrumentation](#).

Competitive Selections

- [Mar 2026 - Sapienza University of Rome](#) — Shortlisted candidate for the tenure-track Assistant Professor selection, Bando 2025RTTE011, GSD 02/PHYS-01.
- [Nov 2025 - INFN](#) — Finalist in the Italian national competition for permanent Researcher, Level III, TI/INFN/R3/27372. Passed the written and oral examinations.

Experimental Operations and Shifts

- [Oct 2023–present - CYGNO experiment](#) — Shifter and expert on call for detector operation, data taking, and technical support.
- [Mar 2022–Sep 2023 - CMS GEM subsystem](#) — Detector On Call for the CMS GEM subsystem.
- [Nov 2019–Sep 2023 - CMS experiment](#) — Technical shifter at the CMS Detector Control System.

Research Activities

R&D activities

- [CYGNO/CYGNUS detector R&D](#) — Development of optical-readout gaseous TPCs for directional rare-event searches, from the 50 L LIME prototype to the 400 L CYGNO04 demonstrator and toward large-scale CYGNUS concepts. Activities include detector design, optimization of the optical and electronic readout strategy, high-gain saturation mitigation, light-yield enhancement, 3D design, prototyping, and printing, innovative gas mixtures, Negative Ion Drift operation, and scalable optical readout concepts for future large-volume detectors. Selected publications: [\[15\]](#), [\[11\]](#), [\[9\]](#).
- [X-ray polarimetry detector R&D](#) — Development and testing of triple-GEM optical-readout TPCs for hard X-ray polarimetry within the PRIN-funded HypeX project, adapting CYGNO-derived detector technology to high-energy astrophysics. The detector reconstructs X-ray-induced photoelectron tracks using qCMOS imaging, extending polarimetric sensitivity to the 10 keV–60 keV energy range by precisely measuring the photoelectron emission direction. Selected publication: [\[16\]](#).
- [PICOSEC Micromegas R&D for the Muon Collider](#) — Coordination of the R&D programme to adapt PICOSEC Micromegas technology to large-area, high-rate, long-term operation for a future Muon Collider detector. Activities include prototype development from a 1 cm² baseline to 100 cm², photocathode studies, Cherenkov-radiator tests, gas-mixture optimization, ion-backflow studies, rate-capability measurements, and scalable readout concepts while preserving sub-100 ps timing performance. Selected publications: [\[13\]](#), [\[12\]](#), [\[10\]](#), [\[6\]](#).
- [CMS GEM detector R&D](#) — R&D on triple-GEM detectors for the CMS muon system, with focus on robustness, stability, and performance in high-background conditions. Work includes aging and radiation-hardness studies, discharge characterization and mitigation, rate-capability optimization, gas-distribution design, gas monitoring, readout optimization, and mitigation of magnetic-field-induced instabilities. Selected publications: [\[14\]](#), [\[8\]](#), [\[7\]](#), [\[5\]](#), [\[4\]](#), [\[3\]](#), [\[2\]](#), [\[1\]](#).

Analysis and simulation activities

- **CYGNO detector performance, background, and response modelling** — Analysis of LIME data to assess detector performance and operational limits, including pedestal stability, GEM light production, saturation effects, and correlations between optical, PMT, and electronic signals for 3D reconstruction. Contributions include Geant4 radon-background studies, alpha-correlation tagging strategies, and modelling of the non-linear light response of optically readout GEM TPCs to improve data–MC agreement in the CYGNO simulation pipeline. Selected publications: [15], [11].
- **X-ray polarimetry reconstruction and performance analysis** — Development of the complete analysis and simulation framework for optical-TPC X-ray polarimetry. This work included a full Geant4 simulation of the experimental setup for the indirect determination of the modulation factor, together with a deconvolution-based analysis of the acquired data to extract the detector angular resolution. Direct polarimetric measurements with fully polarized X-ray beams were analysed using the complete Stokes-parameter formalism. Detector performance was evaluated over the 10 keV–60 keV energy range, including the response to a polarized beam at 17.3 keV. Selected publication: [16].
- **EXPO in-orbit background simulations** — Coordination of Geant4 simulations of the in-orbit background expected in the EXPO polarimetric payload for ESA M-class mission proposal. Work includes development of the simulation framework, implementation of payload mass-model components, evaluation of space-radiation-induced backgrounds, and background-rejection and mitigation strategies.
- **Muon Collider/PICOSEC simulations and data analysis** — Simulation of Beam-Induced Background in the forward region of the Muon Collider detector, showing the importance of ultra-fast timing for background rejection. Analysis of laboratory and test-beam data to evaluate PICOSEC timing performance, rate capability, photocathode response, material choices, gas mixtures, and readout configurations. Selected publications: [13], [12], [10], [6].
- **CMS GEM performance, commissioning, and operation analysis** — Analysis of data from CMS GEM R&D, commissioning, and operation campaigns, including GIF++, CHARM, CERN 904, test beams, magnetic-field tests, and Run-3 operation. These studies quantified aging, discharge probability, rate-capability losses, gain stability, gas-system performance, magnetic-field-induced instabilities, and mitigation strategies. Additional contributions include quality control, commissioning, Detector-On-Call shifts, Data Quality Monitoring, and software tools for GEM demonstrators and GE1/1 stations. Selected publications: [14], [8], [7], [5], [4], [3], [2], [1].

Management activities

- **CYGNO technical coordination and project management** — Coordination of the design, procurement, assembly, installation, and commissioning of the 400 L CYGNO04 demonstrator. Responsibilities include detector engineering and integration, supplier coordination, installation planning, commissioning readiness, safety and environmental compliance, interfaces with LNGS technical services, schedule management, and delivery within approximately 1 M€ of procurement and assembly funding. The role involves steering the work of the approximately 40 members CYGNO collaboration, including physicists, engineers, and technicians, to achieve project milestones, resolve technical and organisational blockers, and prepare the experiment for commissioning, data taking, and scientific exploitation. To support this activity, I designed and deployed a dedicated local AI project-management agent that integrates meeting minutes, technical logbooks, schedules, task lists, procurement records, and engineering notes into a searchable operational knowledge base, generating coordination briefs, status summaries, and follow-up reports for technical decision-making and collaboration management.
- **CYGNUS optical-readout and feasibility-study coordination** — Led a five-person international team supporting the preparation of the CYGNUS proposal for a large-volume directional detector at Super-Kamiokande. Coordinated work planning, task allocation, technical integration, and delivery of feasibility studies for directional low-energy neutrino and supernova-neutrino measurements.
- **EXPO background-simulation coordination** — Led a four-physicist team responsible for the in-orbit background simulation programme of the EXPO instrument for an ESA M-class mission proposal. Defined the Geant4 simulation strategy, structured the activity into technical work packages, assigned and coordinated subtasks, integrated detector and payload inputs, and supervised the production of background estimates for instrument and mission optimisation. Also coordinated the preparation and writing of the corresponding sections of the ESA proposal.
- **PICOSEC Micromegas R&D coordination** — Led a team of three physicists in the PICOSEC Micromegas R&D programme for Muon Collider detector studies, coordinating activities from the initial proposal to the production and validation of functional large-area prototypes. Responsibilities included defining the experimental programme, assigning technical tasks, organising laboratory and test-beam campaigns and shift schedules, and managing a dedicated budget of approximately 20 k€ for prototype production. I also represented and coordinated the Muon Collider PICOSEC activities within the international PICOSEC Collaboration and the broader gaseous-detector community, initially through RD51 and subsequently through DRD1.
- **CMS GEM coordination roles** — Served as R&D Test-Beam Coordinator for the 2022–2023 SPS campaign, leading a team of approximately eight physicists and technicians in the validation of ME0 prototypes. Responsibilities included defining the scientific programme, assigning tasks and shifts, coordinating facility access and beam operations with SPS management, and reporting progress and results to CMS management. As L3 responsible for the CMS GEM gas system, supervised an engineer and several technicians during installation and commissioning, coordinated interfaces with CMS services, and independently managed the gas-monitoring system integrated into the CMS GEM detector-

control system.

Selected Publications

- [16] - 2026 — [A Large-Area Optical Time Projection Chamber for Hard X-ray Polarimetry with Directional Imaging of Low-Energy Electron Recoils](#).
- [15] - 2026 — [Modeling the light response of an optically readout GEM-based TPC for the CYGNO experiment](#).
- [14] - 2025 — [Study on discharge and short-circuit generation in CMS GE1/1 triple-GEM detectors during Run 3](#).
- [13] - 2025 — [Single-channel PICOSEC Micromegas detector with improved time resolution](#).
- [12] - 2025 — [Photocathode characterisation for robust PICOSEC Micromegas precise-timing detectors](#).
- [11] - 2024 — [Enhancing the light yield of He:CF₄-based gaseous detector](#).
- [10] - 2024 — [A novel diamond-like carbon based photocathode for PICOSEC Micromegas detectors](#).
- [9] - 2024 — [Charge amplification in low-pressure CF₄:SF₆:He mixtures with a multi-mesh THGEM for directional Dark Matter searches](#).
- [8] - 2024 — [Development of the CMS detector for the CERN LHC Run 3](#).
- [7] - 2023 — [Impact of magnetic field on the stability of the CMS GE1/1 GEM detector operation](#).
- [6] - 2023 — [Towards a muon collider](#).
- [5] - 2022 — [Quality control of mass-produced GEM detectors for the CMS GE1/1 muon upgrade](#).
- [4] - 2021 — [Performance of a triple-GEM demonstrator in pp collisions at the CMS detector](#).
- [3] - 2020 — [Triple-GEM discharge probability studies at CHARM: simulations and experimental results](#).
- [2] - 2020 — [Interstrip capacitances of the readout board used in large triple-GEM detectors for the CMS Muon Upgrade](#).
- [1] - 2020 — [Performance of prototype GE1/1 chambers for the CMS muon spectrometer upgrade](#).

Presentations at Conferences

- [2026 - Saturation effect in CYGNO GEM-based detectors and correction at high gain](#) — MPDG2026, Prague (CZ), 31 Aug - 4 Sep 2026. International conference, plenary talk.
- [2026 - Gaseous Detectors for Hard X-ray Polarimetry: from EXPO to Wide-Field Hard X-ray TPCs](#) — MPDG2026, Prague (CZ), 31 Aug - 4 Sep 2026. International conference, plenary talk.
- [2026 - When Spin adds to N²: a proposal to probe the axial side of CEvNS with Fluorine](#) — WHAT ELSE - N₂ is better than N, LNGS (IT), 15 May 2026. International workshop, invited talk.
- [2026 - The CYGNO experiment](#) — 9th CYGNUS Workshop on Directional Recoil Detection, Kobe (JP), 23–25 Feb 2026. International workshop, invited talk.
- [2025 - CYGNO04 Status, Assembly Procedure and Timeline](#) — CYGNO Collaboration Meeting, Clusone (IT), 16–20 Dec 2025. International workshop, invited talk.
- [2025 - Polarimetry R&D status](#) — CYGNO Collaboration Meeting, Clusone (IT), 16–20 Dec 2025. International workshop, invited talk.
- [2025 - The CYGNO experiment, a gaseous TPC for directional Dark Matter searches](#) — TAUPP 2025, Xichang (CN), 24–30 Aug 2025. International conference, parallel talk.
- [2025 - The CYGNO experiment, a gaseous TPC for directional Dark Matter searches](#) — EPS-HEP 2025, Marseille (FR), 6–11 Jul 2025. International conference, parallel talk.
- [2025 - X-POT: X-ray Polarimetry with Optical Time Projection Chamber](#) — ASAPP 2025, Girona (ES), 12–16 May 2025. International conference, plenary talk.
- [2024 - The CYGNO experiment, a gaseous TPC for directional Dark Matter searches](#) — MPGD 2024, Hefei (CN), 14–18 Oct 2024. International conference, plenary talk.
- [2024 - Development and Preliminary Results of a Large-Volume Time Projection Chamber for X-ray Polarimetry](#) — MPGD 2024, Hefei (CN), 14–18 Oct 2024. International conference, plenary talk.
- [2024 - HypeX: High Yield Polarimetry Experiment in X-rays](#) — SPIE AS24, Yokohama (JP), 16–21 Jun 2024. International conference, parallel talk.
- [2023 - PICOSEC Micromegas detector for precise muon timing in the Muon Collider detector](#) — FAST 2023, Elba Island (IT), 28 May–1 Jun 2023. International conference, plenary talk.
- [2021 - Status and commissioning of the new GE1/1 station for the CMS experiment](#) — EPS-HEP 2021, DESY (DE), 26–30 Jul 2021. International conference, parallel talk.
- [2019 - Aging studies on Triple-GEM detectors for future upgrades of the CMS endcap muon spectrometer at the HL-LHC](#) — IPRD 2019, Siena (IT), 14–17 Oct 2019. International conference, plenary talk.
- [2025 - A Large-Volume, Extended Field-of-View TPC for X-ray Polarimetry](#) — IFD 2025, Sestri Levante (IT), 17–19 Mar 2025. National workshop, plenary talk.
- [2025 - Photoelectric polarimeters R&D](#) — FiXP Academy, L'Aquila (IT), 7–11 Apr 2025. International workshop,

2025 - [Triple-GEM TPC for X-ray polarimetry](#) — 4th DRD1 Collaboration Meeting, CERN (CH), 24–28 Feb 2025. International workshop, parallel talk.

2023 - [Status and plans for the study of X-ray polarimetry](#) — CYGNO Collaboration Meeting, Frascati National Laboratories (IT), 4–6 Dec 2023. International workshop, invited talk.

2023 - [Study of the pedestal stability](#) — CYGNO Collaboration Meeting, Frascati National Laboratories (IT), 4–6 Dec 2023. International workshop, invited talk.

2023 - [PICOSEC for the Muon Collider detector](#) — RD51 Mini-Week, CERN (CH), 27–28 Jan 2023. International workshop, plenary talk.

2022 - [PICOSEC Micromegas: a fast-timing gaseous detector for MIPs](#) — IFD 2022, Bari (IT), 17–19 Oct 2022. National workshop, plenary talk.

2022 - [Rate capability and high-rate GEM foil optimization for the CMS ME0 detector](#) — RD51 Collaboration Meeting, CERN (CH), 13–17 Jun 2022. International workshop, plenary talk.

2021 - [The gas monitoring system for safe operation of the CMS triple-GEM detectors](#) — SIF 2021, Milan (IT), 13–17 Sep 2021. National conference, parallel talk.

2020 - [ME0 project for the Triple-GEM upgrade of the CMS muon spectrometer: design, preliminary performance and test](#) — SIF 2020, Milan (IT), 14–18 Sep 2020. National conference, parallel talk.

2018 - [Advanced aging study on Triple-GEM for GE2/1 and ME0](#) — SIF 2018, Rende (IT), 17–21 Sep 2018. National conference, parallel talk.

- [2026 - 9th CYGNUS Workshop on Directional Recoil Detection](#) — “Wide-Field Hard X-ray Polarimetry with a Large-Volume TPC”. Kobe (JP), 23–25 Feb 2026.
- [2022 - LHCP 2022](#) — “ME0 second-generation prototype chamber characterization for CMS Phase-II upgrade in the muon forward region”. Taiwan (TW), 16–21 May 2022.
- [2021 - ICALEPCS 2021](#) — “The GEM Gas Monitoring System: using a gaseous detector as a gas detector for CMS triple-GEM safe operation”. Shanghai (CN), 14–22 Oct 2021.
- [2021 - IWoRiD 2021](#) — “The GEM Gas Monitoring System: using a gaseous detector as a gas detector for CMS triple-GEM safe operation”. Ghent (BE), 27 Jun–1 Jul 2021.
- [2021 - IWoRiD 2021](#) — “High-rate capability studies of triple-GEM detectors for the ME0 upgrade of the CMS Muon Spectrometer”. Ghent (BE), 27 Jun–1 Jul 2021.
- [2020 - IEEE NSS/MIC 2020](#) — “Novel triple-GEM mechanical design for the CMS ME0 detector: preliminary performance and R&D results”. Boston (US), 31 Oct–7 Nov 2020.
- [2020 - INSTR 2020](#) — “Novel triple-GEM mechanical design for the CMS ME0 detector and preliminary performance”. Novosibirsk (RU), 24–28 Feb 2020.
- [2020 - INSTR 2020](#) — “Comparative aging studies on a Single Wire Proportional Chamber”. Novosibirsk (RU), 24–28 Feb 2020.
- [2020 - Winter LHCC Meeting](#) — “Novel triple-GEM mechanical design for the CMS ME0 detector and preliminary performance”. CERN (CH), 19 Feb 2020.
- [2019 - MPGD 2019](#) — “Advanced aging study on Triple-GEM”. La Rochelle (FR), 5–10 May 2019.
- [2019 - Winter LHCC Meeting](#) — “Advanced aging study on Triple-GEM”. CERN (CH), 27 Feb 2019.
- [2018 - IEEE NSS/MIC 2018](#) — “Study of long-term performance of triple-GEM detectors for the upgrade of the CMS muon high-rate region at the HL-LHC”. Sydney (AU), 10–17 Nov 2018.

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