# Conferences and courses of the CMS team

## Talks

### 2026

G. Coulon, Search for Long-lived Particles with CMS, LHCP 2026, 18-22 May 2026, Paris, France

G. Saha, Higgs & CP at the LHC, ESSFAA2026: Extended Scalar Sectors From All Angles 2026, 1-5 June 2026, CERN, Switzerland

C. Collard, Searches for low mass resonances, Moriond EW, 15 March 2026, La Thuile, Italy, with proceedings CMS CR-2026/030

### 2025

E. Chabert, Searches in CMS for long-lived particles and other non-conventional signatures, EPS-HEP 2025, July 2025, Marseille, France

P. Vaucelle, Offline Monitoring of the CMS Silicon Strip Tracker & the search for displaced top quarks in the tracker of CMS, Student Recognition Talk, Tracker Week, May 2025

G. Saha, Higgs property (mass, width, CP) and EFT measurements from CMS, LHCP 2025, May 5-9 2025, Taipei, Taiwan

Meena, QCD measurements in pp collisions, LHCP 2025, May 5-9 2025, Taipei, Taiwan

O. Poncet, Studies of anomalous couplings of the Higgs boson and its CP structure at CMS, DIS 2025, March 24-28 2025, Cape Town, South Africa

### 2024

C. Collard, “Final thoughts”, concluding talk at the CMS EXO workshop 2024 (internal to the CMS Collaboration), December 16-18 2024, London, UK

P. Vaucelle, “Hadronic decays in the tracker”, talk at the CMS EXO workshop 2024 (internal to the CMS Collaboration), December 16-18 2024, London, UK

C. Collard, Searches for long lived particles at CMS, IRN Terascale, November 13-15 2024, Lyon, France

P. Vaucelle, Search for displaced top quark in the tracker of the CMS experiment at the LHC, TOP 2024, September 22-27 2024, St-Malo, France

J. Andrea, Comparisons of FCNC results from ATLAS and CMS , TOP 2024, September 22-27 2024, St-Malo, France

A.-C. Le Bihan, Higgs measurements at ATLAS and CMS, PASCOS, July 7-13 2024, Quy Nhon, Viêt Nam, CMS CR-2024/250

A.-C. Le Bihan, Higgs and BSM parallel session, PASCOS, July 7-13 2024, Quy Nhon, Viêt Nam

R. Haeberle, Recent results on LLPs with hadronic final states in CMS, LHCP, June 3-7 2024, Boston

J. Andrea, Recent highlights of top quark production from CMS, DIS, April 2-12 2024, Grenoble

P. Vaucelle, Displaced top quarks, Top-LHC France, April 1-7 2024, Paris LPNHE

C. Collard, Searches for Long lived particles at ATLAS and CMS, Moriond QCD, April 1-7 2024, La Thuile, Italy, with proceedings CMS CR-2024/071

**2023**

U. Goerlach, Precision measurements of W and Z production in ATLAS and CMS, EPS-HEP2023: European Physical Society Conference on High Energy Physics 2023, 21-25 Aug 2023, Hamburg (Germany)

J. Andrea, OT mechanics, integration, cooling, and services, CMS P2UG Review, May 11 2023.

Mario Sessini, Search for CP violation in the tau Yukawa coupling with CMS, Lake Louise Winter Institute 2023, February 19-23 2023, Lake Louise, Canada.

Ulrich Goerlach, Measurement of the tau lepton polarization in Z boson decays by CMS, Lake Louise Winter Institute 2023, February 19-23 2023, Lake Louise, Canada.

**2022**

Éric Chabert, BSM searches at CMS: Highlights and prospects , Kruger 2022, December 5-9 2022, Kruger National Park Johannesburg, South Africa.

Dylan Apparu, BSM short talk - CMS, LHC Days in Split, October 3-8 2022, Split, Croatia.

Mario Sessini, Search for CP violation in the tau Yukawa coupling with CMS, Higgs Hunting 2022, September 12-14 2022, Orsay and LPNHE, Paris France.

Anne-Catherine Le Bihan, H EFTs and CP violation session, Higgs Hunting 2022, September 12-14 2022, Orsay and LPNHE, Paris France.

Jean-Laurent Agram, Mechanical support structure of the CMS Phase-2 Outer Tracker Barrel (TB2S), Forum on Tracking Detector Mechanics 2022, June 8-10 2022, LNF Frascati, Roma (Italy).

Yannick Patois, Le site Tier 2 de l'IPHC sur la plateforme SCIGNE, Journées LCG France, IPHC 7-9 juin 2022.

Robin Ducrocq, Displaced Tops, Top LHC-France 2022, IP2I Lyon 9-10 mai 2022.

Jérémy Andrea, top at future e+e- colliders, Top LHC-France 2022, IP2I Lyon 9-10 mai 2022.

**2017 - 2021**

Saskia Falke, Combined measurements of Higgs boson production and decay with full Run2, IRN terascale, November 22-24 2021, LPC Clermont-Ferrand.

Anne-Catherine Le Bihan, CMS H(125) fermion decay results (including ttH), Higgs Hunting 2021, September 20-22 2021, Paris, online.

Eric Chabert, Selected University Instrumentation programs, ECFA Detector R&D Roadmap Symposium of Task Force 9 Training, 30 April 2021, online.

Guillaume Bourgatte, [YSF] Measurement of CP structure in Higgs boson decays to a pair of tau leptons at CMS, Rencontres de Moriond 2021 : Electroweak Interactions & Unified Theories, 21-27 March 2021, Moriond@home, online ; proceedings CMS-CR-2021-058.

Emery Nibigira, Test-beam and irradiation facility at the 25 MeV proton cyclotron CYRCé at Strasbourg, BTTB9 : 9th Beam Telescopes and Test Beams Workshop, 8-11 February 2021, Lecce (Italy), online.

Jeremy Andrea, ttbar at FCC, XXVII Cracow EPIPHANY Conference on Future of particle physics, 7-10 January 2021, Cracow (Poland), online.

Pierre Van Hove, CMS in your pocket : between serious game and demonstration tool, ICHEP 2020, 28 July - 6 August 2020, Prague, online.

Jeremy Andrea, Detector constraints from Top physics, FCC-France workshop, 14-15 May 2020, LPNHE Paris, online.

Caroline Collard, Collider searches, Séminaire thématique GT01 Physique des particules, 12-13 Mars 2020, IP2I Lyon, online.

Eric Conte, Detector simulation and analysis validation, The second MadAnalysis 5 workshop on LHC recasting @ Korea, 13-20 February 2020, KIAS Seoul (Korea).

Clément Grimault, Reference telescope for detector tests at the 25 MeV proton cyclotron CYRCé at Strasbourg, BTTB2020, 8th Beam Telescopes and Test Beams Workshop, 27-31 January 2020, Tbilisi (Georgia).

Ulrich Goerlach, Test-beam and irradiation facility for high rates and occupancies with a LHC like beam frequency of 42.5 MHz at the 25 MeV proton cyclotron CYRCé at Strasbourg, BTTB2020, 8th Beam Telescopes and Test Beams Workshop, 27-31 January 2020, Tbilisi (Georgia).

Caroline Collard, Searches for direct production of third generation squarks at CMS, EPS-HEP2019, 10-17 July 2019, Ghent (Belgium) ; proceedings PoS EPS-HEP2019 (2020).

Daniel Bloch, Flavour tagging at HL-LHC, Game of Flavours - CMS Heavy flavour tagging workshop 2019, 30 April to 3 May 2019, Dubrovnik (Croatia).

Jeremy Andrea, CMS, ttH multilepton and combination, Top-LHC France 2019, 24-26 April 2019, LPSC Grenoble.

Nicolas Tonon, Rare single top processes at CMS, Lake Louise Winter Institute 2019, Alberta, Canada, 10-16 February 2019

Jean-Laurent Agram, CMS strip radiation damage measurements, Radiation effects in the LHC experiments and impact on operation and performance, 11-12 February 2019, CERN.

Eric Chabert, Silicon Strip Sensor Simulation in the CMS Monte Carlo Framework, Radiation effects in the LHC experiments and impact on operation and performance, 11-12 February 2019, CERN.

Anne-Catherine Le Bihan, Hadronic Tau reconstruction and identification performance in ATLAS and CMS, 15th International Workshop on Tau Lepton Physics, 24-28 Sept. 2018, Amsterdam (Nederland).

Vladimir Cherepanov, E. Richter-Was, Z. Was, Monte Carlo, fitting and Machine Learning for Tau leptons, 15th International Workshop on Tau Lepton Physics, 24-28 Sept. 2018, Amsterdam (Nederland) ; SciPost Physics Proceedings 1, 018 (2019), arXiv:1811.03969.

Caroline Collard, Highlights on BSM searches at CMS, LHC Days, 17-22 Sept. 2018, Split (Croatia).

Jérémy Andrea, Rare single top production processes (ATLAS+CMS), Top2018 - 11th International Workshop on Top Quark Physics, 16-21 Sept. 2018, Bad Neuenahr (Germany) ;

Eric Chabert, Highlights from SUSY searches at CMS, PASCOS2018, 24th International Symposium on Particles, Strings & Cosmology, 4-8 June 2018, Cleveland, OH (United States).

Jeremy Andrea, CMS : upgrade and physics at IPHC, IRN Terascale, 30 May - 1 June 2018, IPHC Strasbourg.

Vladimir Cherepanov, Towards the measurement of the longitudinal and transverse spin correlation of tau leptons in the decays of Z and H, IRN Terascale, 30 May - 1 June 2018, IPHC Strasbourg.

Nicolas Tonon, Measurement of the tZq cross section, Top-LHC France 2018, 23-25 May 2018, LPNHE Paris.

Daniel Bloch, Detector upgrades and performances (CMS), Top-LHC France 2018, 23-25 May 2018, LPNHE Paris.

Eric Conte, Fast detector simulation for LLPs : Delphes and MA5, Searching for long-lived particles at the LHC : Third workshop of the LHC LLP Community, 16-18 May 2018, CERN.

Eric Conte, Long-lived particles with Delphes and MadAnalysis 5, (Re)interpreting the results of new physics searches at the LHC, 14-16 May 2018, CERN.

Anne-Catherine Le Bihan, The CMS Particle Flow algorithm, LCWS2017, International Workshop on Future Linear Colliders, 23-27 Oct. 2017, Strasbourg.

Nicolas Tonon, Measurement of the tZq cross section at 13 TeV with the CMS detector, Top2017, 10th International Workshop on Top Quark Physics, 17-22 Sept. 2017, Braga (Portugal) ; proceedings arXiv:1712.08046.

Eric Conte, LHC results reinterpretation tools, Tools 2017 : Tools for the SM and the New Physics, 10-13 Sept. 2017, Corfu, Greece.

Eric Conte, Detector simulation, The first MadAnalysis 5 workshop on LHC recasting @ Korea, 20-27 August 2017, Mountain Condominium, Korea.

Eric Conte, A general introduction to MadAnalysis 5, The first MadAnalysis 5 workshop on LHC recasting @ Korea, 20-27 August 2017, Mountain Condominium, Korea.

Jérémy Andrea, Measurement of single top quark production with CMS, EPS-HEP 2017, EPS Conference on High Energy Physics, 5-12 July 2017, Venice (Italy) ; proceedings PoS EPS-HEP2017 (2018).

Nicolas Chanon, Recherche de la production associée de quarks top au boson de Higgs au LHC, 24e Congrès Général de la SFP, Division Physique des Particules, Colloque « Jeunes chercheurs-euses », 3-7 Juillet 2017, Orsay.

Caroline Collard, Third generation squarks with CMS, LHCP 2017, 15-20 May 2017, Shanghai (China).

Marketa Jansova, SUSY stop in R-conservation, Top-LHC France 2017, 4-5 May 2017, CPPM Marseille.

Eric Conte, Analysis recast and reinterpretation, Top-LHC France 2017, 4-5 May 2017, CPPM Marseille.

Nicolas Tonon, Rare single top processes, Top-LHC France 2017, 4-5 May 2017, CPPM Marseille.

Jean-Laurent Agram, LHC results on EFTs from top quark measurements (couplings and FCNC), SM@LHC 2017, 2-5 May 2017, Nikhef Amsterdam, The Netherlands.

Xavier Coubez, ttH production, SM@LHC 2017, 2-5 May 2017, Nikhef Amsterdam, The Netherlands.

Marketa Jansova, Searches for supersymmetric partners of third-generation quarks with CMS, XXV International Workshop on Deep-Inelastic Scattering and Related Subjects, 3-7 April 2017, Birmingham ; proceedings PoS DIS2017 (2018).

Nicolas Chanon, Search for associated production of Higgs bosons and top quarks in multilepton final states at $\sqrt{s}$ = 13 TeV at CMS, Rencontres de Moriond QCD and High Energy Interactions, 25 March - 1 April 2017, La Thuile, Italy ; proceedings iNSPIRE 1662177

Jean-Marie Brom, Le CERN : histoire et communication politique, 2nde Rencontre Universitaire Franco-Belge sur la communication scientifique, 24-25 Feb. 2017, CERN.

**2011 - 2016**

Eric Chabert, Results on Top-Quark Physics and Top-Quark-Like Signatures by CMS, Discovery Physics at the LHC, 4-9 Dec. 2016, Kruger, Rep. of South Africa ; proceedings J. Phys. : Conf. Ser. 878 012009.

Nicolas Chanon, ttH review for ATLAS and CMS, GDR Terascale, 23-25 Nov. 2016, LPNHE Paris.

Eric Conte, LHC results and prospects for EFTs from FCNC, LHC TOP WG, 21-23 Nov. 2016, CERN.

Nicolas Chanon, Associated production of top quark with the Higgs boson, Precision theory for precise measurements at the LHC and future colliders., 25 Sept. - 1 Oct. 2016, Quy-Nhon (Vietnam).

Caroline Collard, SUSY in CMS and ATLAS, LHC Days, 19-24 Sept. 2016, Split (Croatia).

Jérémy Andrea, Searches for Dark Matter with top quarks, Top2016 - 9th International Workshop on Top Quark Physics, 18-23 Sept. 2016, Olomouc (Czech Republic) ; proceedings arXiv:1701.03046 [hep-ex].

Michael Buttignol, Search for new resonances coupling to third generation quarks in pp collisions at 13 TeV at CMS, 38th International Conference on High Energy Physics (ICHEP 2016), 3-10 August 2016,

Chicago, USA.

Kirill Skovpen, Single top production and properties at the LHC, Fourth Annual Large Hadron Collider Physics Conference (LHCP2016), 13-18 June 2016, Lund, Sweden ; proceedings PoS LHCP2016 (2017).

Eric Chabert, Third generation SUSY searches in CMS, Fourth Annual Large Hadron Collider Physics Conference (LHCP2016), 13-18 June 2016, Lund, Sweden ; proceedings PoS LHCP2016 (2017).

Eric Conte, status of FCNC MC production, 3rd CMS Single-Top Workshop, 2-3 June 2016, Strasbourg, France.

Michaël Buttignol, Single-top + DM Exp., 3rd CMS Single-Top Workshop, 2-3 June 2016, Strasbourg, France.

Kirill Skovpen, Experimental summary of single-top couplings, anomalous couplings and FCNC measurement, 3rd CMS Single-Top Workshop, 2-3 June 2016, Strasbourg, France.

Jérémy Andrea, Single top production at ATLAS and CMS, 28th Rencontres de Blois on “Particle Physics and Cosmology”, 28 May - 3 June 2016, Blois, France.

Anne-Catherine Le Bihan, ttH in CMS, GDR Terascale, 23-25 May 2016, Nantes.

Eric Conte, Probing the Flavor Changing Interactions of the Top Quark at the LHC, GDR Terascale, 23-25 May 2016, Nantes.

Caroline Collard, b-tagging techniques in CMS, GDR Terascale, 23-25 May 2016, Nantes.

Xavier Coubez, ttH en multilepton CMS, TOP-LHC-France, 19-20 May 2016, Clermont-Ferrand.

Michaël Buttignol, Monotop et top FCNC, TOP-LHC-France, 19-20 May 2016, Clermont-Ferrand.

Jérémy Andrea, section efficace ttbar, TOP-LHC-France, 19-20 May 2016, Clermont-Ferrand.

Kirill Skovpen, b-tagging CMS overview, TOP-LHC-France, 19-20 May 2016, Clermont-Ferrand.

Jin Li, Multiboson measurements from CMS (Run I), DIS 2016 : 24th International Workshop on Deep-Inelastic Scattering and Related Subjects, 11-15 April 2016, DESY, Hamburg (Germany).

Xavier Coubez, Multiboson measurements from CMS (Run II), DIS 2016 : 24th International Workshop on Deep-Inelastic Scattering and Related Subjects, 11-15 April 2016, DESY, Hamburg (Germany) ; proceedings CMS CR-2016/309.

Nicolas Chanon, Highlights of CMS 13 TeV 2015 LHC run results, 9th France-China Particle Physics Laboratory Workshop, 30 March - 1 April 2016, Strasbourg.

Jean-Marie Brom, Progress and questions about sCVD Diamond Detectors for Particle Tracking, 14th Vienna Conference on Instrumentation, 15-19 Feb. 2016, Vienna (Austria).

Jeremie Merlin, Aging and outgassing studies for GEM detectors in the LHC high-rate environment, MPGD2015 : 4th International Conference on Micro Pattern Gaseous Detectors, 12-15 Oct. 2015, Trieste (Italy).

Nicolas Chanon, SM Higgs properties, XXXV Physics in Collision, 15-19 Sept. 2015, Warkwik (UK) ; proceedings CMS CR-2015/318.

Jérémy Andrea, Searches for new physics at 13 TeV : CMS, Top2015 - 8th International Workshop on Top Quark Physics, 14-18 Sept. 2015, Ischia (Italy) ; proceedings PoS(TOP2015)009.

Kirill Skovpen, Searches for FCNC with top quarks, Top2015 - 8th International Workshop on Top Quark Physics, 14-18 Sept. 2015, Ischia (Italy) ; proceedings PoS(TOP2015)048.

Michaël Buttignol, Recherche de nouvelle physique grâce à l'expérience CMS du LHC, 23e Congrès Générale de la Société Française de Physique, 24-28 Août 2015, Strasbourg

Lorenzo Basso, Jérémy Andrea, Discovery potential for T' → tZ in the trilepton channel at the LHC, EPS HEP 2015, 22-29 July 2015, Vienna (Austria) ; proceedings PoS(EPS-HEP2015)107, arXiv:1509.07646.

Alexandre Aubin, Weakly interacting and third generation SUSY searches at the LHC, 27th Rencontres de Blois, 31 May - 5 June 2015, Blois.

Kirill Skovpen, Search for FCNC, Top LHC-France 2015, 18-19 May 2015, Lyon

Anne-Catherine le Bihan, Measurements of ttbar production in association with boson, Standard Model at LHC 2015, 21-24 April 2015, Florence (Italy).

Kirill Skovpen, Top quark properties and single top at CMS, Les Rencontres de Physique de la vallée d'Aoste, 1-7 March 2015, La Thuile (Italy) ; proceedings Nuovo Cim. C38 (2016) no.4, 145, DOI : 10.1393/ncc/i2015-15144-8.

Ulrich Goerlach, Search for long-lived particles decaying into lepton pairs with the CMS detector, GDR Terascale, 11-13 Dec. 2014, Heidelberg (Germany)

Nicolas Chanon, Modelling of VV+jets and Higgs+jets at CMS, Higgs + Jets Workshop, 8 - 10 Dec. 2014, Durham IPPP (GB)

Caroline Collard, Prospect of BSM/SUSY in CMS, LHC Days, 29 Sep. - 4 Oct. 2014, Split (Croatia).

Jérémy Andrea, Top quark physics results from CMS, PANIC 2014, 25-29 Aug. 2014, DESY, Hamburg (Germany) ; proceedings DOI : 10.3204/DESY-PROC-2014-04.

Jeremie Merlin, Large Area GEMs : CMS Experience, RD51 mini week, 16-20 June 2014, CERN

Jeremie Merlin, Aging study of large triple-GEM detectors for the high rate environment in CMS, RD51 mini week, 16-20 June 2014, CERN

Christophe Goetzmann, Track reconstruction in CMS high luminosity environment, TIPP'14, 2-6 June 2014, Amsterdam (Netherlands) ; proceedings PoS(TIPP2014)104.

Michaël Buttignol, Monotops at the LHC, Rencontres de Physique des Particules, 20-22 Jan. 2014, IPHC Strasbourg

Jérémy Andrea, tFCNC at CMS (non-Higgs), The top-charm frontier at the LHC, 14-17 Jan. 2014, CERN

Eric Chabert, Search for vector-like quark top and bottom partners at CMS, 19th International Symposium on Particles, Strings and Cosmology (PASCOS 2013), 20-26 Nov 2013, Taipei (Taiwan)

Eric Conte, MadAnalysis 5 - Status and news, GDR Terascale, 28-30 Oct. 2013, LAPP Annecy (France)

Alexandre Aubin, Top Squark Search in the 1-lepton channel with CMS, GDR Terascale, 28-30 Oct.

2013, LAPP Annecy (France)

Jérémie Merlin, Aging study for large triple-GEM detectors for the high rate environment in CMS, IEEE-NSS-MIC-RTDS 2013, 27 Oct. - 2 Nov. 2013, Seoul (Korea)

Caroline Collard, Stop and other searches, 6th International Workshop on Top Quark Physics (TOP2013), 14-19 Sep. 2013, Durbach (Germany) ; proceedings DESY-PROC-2014-02.

Caroline Collard, Recherche expérimentale de nouvelle physique au LHC, 22e Congrès Générale de la Société Française de Physique, 1-5 Juillet 2013, Marseille

Eric Conte, B. Fuks, MadAnalysis 5 : status and new developments, 15th International Workshop on advanced computing and analysis techniques, ACAT 2013, 16-21 May 2013, Beijing (China) ; proceedings J. Phys. Conf. Ser. 523 (2014) 012032.

Anne-Catherine le Bihan, Top pair production cross-section measurement in lepton+jets channel with ATLAS+CMS, LHC France 2013, 2-6 April 2013, Annecy (France)

Eric Chabert, Top pair production cross-section measurement in di-lepton channel with CMS, LHC France 2013, 2-6 April 2013, Annecy (France)

Caroline Collard, b-tagging in CMS, LHC France 2013, 2-6 April 2013, Annecy (France)

Eric Conte, Status and new developments in MadAnalysis 5, GDR Terascale, 5-7 Nov. 2012, LPNHE Paris (France)

Jérémy Andrea, Precise top quark cross-section results at LHC, 5th International Workshop on Top Quark Physics (TOP2012), 16-21 Sep 2012, Winchester, Hampshire (United Kingdom) ; proceedings J. Phys. Conf. Ser. 452 (2013) 012025.

Marco Cardaci, Overview of top results from ATLAS and CMS, 20th International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY 2012), 13-18 August 2012, Peking (China)

Eric Conte, Benjamin Fuks, Discussion on I/O formats, run performance and analysis tools, Workshop on Fast Simulators for the LHC, 11-12 June 2012, CERN.

Cristina Ferro, Top quark cross section measurements with CMS, Physics at LHC 2012 (PLHC2012), 4-9 June 2012, Vancouver, BC (Canada) ; proceedings SLAC eConf C1206043.

Jean-Laurent Agram, CMS Silicon Strip Tracker Performance, Technology and Instrumentation in Particle Physics (TIPP 2011), Chicago, IL, USA, 9-14 June 2011 ; ScienceDirect Physics Procedia vol. 37 (2012).

Jérémy Andrea, Heavy Flavor Physics at CMS, Aspen Winter Conference on particle physics (Aspen 2011), Aspen, Colorado USA, 13-18 Feb 2011.

Marco Cardaci, Soft QCD at CMS, Aspen Winter Conference on particle physics (Aspen 2011), Aspen, Colorado USA, 13-18 Feb 2011.

**before 2011**

Anne Catherine Le Bihan, Expectations for first measurements of t-tbar pair production using early CMS data, IX International Conference on Hyperons, Charm and Beauty Hadrons (BEACH2010), Perugia, Italy, 21-26 June 2010 ; Nuclear Physics B - Proceedings Supplements, vol. 210–211, Jan.–Feb. 2011, p. 45-48.

Daniel Bloch, Early top physics prospects at the LHC, XXth Hadron Collider Physics Symposium (HCP2009), Evian, France, 16-20 November 2009 ; Proceedings of Science, CMS CR-2010/013.

Denis Gelé, Prospects for Top Quark Physics at the LHC, XVII International Workshop on Deep-Inelastic Scattering and Related Subjects (DIS09), Madrid, Spain, 26-30 April 2009 ; proceedings, CMS CR-2009/140.

Jérémy Andrea, B production at CMS, XVII International Workshop on Deep-Inelastic Scattering and Related Subjects (DIS09), Madrid, Spain, 26-30 April 2009 ; proceedings.

Jérémy Andrea, An overview of the Top quarks analysis from the CMS collaboration, Lake Louise Winter Institute 2008, Alberta, Canada, 17-23 February 2008 ; proceedings.

Ulrich Goerlach, Prospects for SUSY with the first data at the LHC, 13th International Symposium on Particle, Fields and Cosmology (PASCOS-07), London, Great Britain, 2-7 July 2007.

Dominique J. Mangeol, Physics with tau’s in final states at CMS, 9th International Workshop on Tau Lepton Physics (TAU06), Pisa, Italy, 19-22 September 2006 ; proceedings.

## Courses in international schools

Anne-Catherine le Bihan, “Higgs Boson Physics at LHC”, Recherches actuelles en physique, M1 de physique, novembre 2021 et 2024, Unistra

Océane Poncet, encadrante CMS Data Analysis School, DESY, 9-14 octobre 2023, DESY

Saskia Falke, EFT interpretations in the Higgs and electroweak sectors, École de Gif 2023, 18-22 Sep. 2023, LAPP, Annecy

Daniel Bloch, b-tagging: basis, concepts and beyond, Top-LHC France 2023, 16 Feb. 2023, IPHC, Strasbourg

Jean-Marie Brom, Gaseous detectors, ESIPAP 2023, 14 Feb. 2023, Archamps

Eric Chabert, Eric Conte, C++ programming, ESIPAP 2023, 6-9 Feb. 2023, Archamps

Marc Krauth, Additive Printing, ESIPAP 2023, 27 Feb. 2023, Archamps

Jean-Marie Brom, Gaseous detectors, ESIPAP 2022, 14-15 Feb. 2022, Archamps

Eric Chabert, Eric Conte, C++ programming, ESIPAP 2022, 7-10 Feb. 2022, Archamps

Jeremy Andrea, Semiconductor detectors, ESIPAP 2021, 17 Feb. 2021, Archamps

Jean-Marie Brom, Gaseous detectors, ESIPAP 2021, 16 Feb. 2021, Archamps

Eric Chabert, Eric Conte, Computing sessions, ESIPAP 2021, 10-11 Feb. 2021, Archamps

Eric Chabert, C++ programming, ESIPAP 2021, 8-9 Feb. 2021, Archamps

Jean-Marie Brom, Detector technologies, ESIPAP 2020, 18-20 Feb. 2020, Archamps

Eric Chabert, Eric Conte, Computing sessions, ESIPAP 2020, 12-13 Feb. 2020, Archamps

Eric Chabert, C++ programming, ESIPAP 2020, 10-11 Feb. 2020, Archamps

Daniel Bloch, CMS Upgrade Plans for Run-3 and Phase-2, CMS Physics Object School, 17 September 2019, Aachen (Germany).

Jean-Marie Brom, Detector technologies, ESIPAP 2019, 19-21 Feb. 2019, Archamps

Eric Chabert, Eric Conte, Computing sessions, ESIPAP 2019, 13-14 Feb. 2019, Archamps

Eric Chabert, C++ programming, ESIPAP 2019, 11-12 Feb. 2019, Archamps

Anne-Catherine Le Bihan, Physics at CMS, École d’été franco-chinoise France excellence, 20 Jul. 2018, IPHC

Ulrich Goerlach, First Look at LHC Data - Z-boson mass activity, ASP2018 High School Teachers Workshop, 5 July 2018, Namibia University of Science and Technology, Windhoek (Namibia)

Ulrich Goerlach, Introduction to Cosmic Ray detectors, ASP2018 High School Teachers Workshop, 5 July 2018, Namibia University of Science and Technology, Windhoek (Namibia)

Ulrich Goerlach, Interactions Particle-Matter / Particle Detectors & ID, Fifth Biennial African School on Fundamental Physics and its Applications (ASP2018), 28 June - 4 July 2018, Namibia University of Science and Technology, Windhoek (Namibia)

Jean-Marie Brom, Detector Technologies, ESIPAP 2018, 20-22 Feb. 2018, Archamps

Eric Chabert, Eric Conte, Computing Sessions, ESIPAP 2018, 14-15 Feb. 2018, Archamps

Eric Chabert, C++ Programming, ESIPAP 2018, 13 Feb. 2018, Archamps

Anne-Catherine Le Bihan, Physics at CMS, École d’été franco-chinoise France excellence, 7 Jul. 2017, IPHC

Jean-Marie Brom, Detector Technologies, ESIPAP 2017, 21-23 Feb. 2017, Archamps

Jean-Marie Brom, Reminder on Particle Interaction with Matter, ESIPAP 2017, 20 Feb. 2017, Archamps

Eric Chabert, Eric Conte, Computing Sessions, ESIPAP 2017, 17-18 Feb. 2017, Archamps

Eric Chabert, C++ programming, ESIPAP 2017, 15-16 Feb. 2017, Archamps

Ulrich Goerlach, Particle-Matter Interactions / Detectors, Fourth Biennial African School on Fundamental Physics and its Applications (ASP2016), 1-8 Aug. 2016, University of Rwanda, Kigali (Rwanda)

Jean-Marie Brom, Detector Technologies, ESIPAP 2016, 22-25 Feb. 2016, Archamps

Eric Chabert, Eric Conte, Computing Sessions, ESIPAP 2016, 17-18 Feb. 2016, Archamps

Eric Chabert, C++ programming, ESIPAP 2016, 2-3 Feb. 2016, Archamps

Jean-Marie Brom, Detector technologies, ESIPAP 2015, 23-26 Feb. 2015, Archamps

Eric Chabert, Eric Conte, Computing Sessions, ESIPAP 2015, 18-19 Feb. 2015, Archamps

Eric Chabert, C++ programming, ESIPAP 2015, 3-4 Feb. 2015, Archamps

Ulrich Goerlach, Particle-Matter Interactions, Detectors, Particle ID, Third Biennial African School on Fundamental Physics and its Applications (ASP2014), 3-23 Aug. 2014, Cheikh Anta Diop University, Dakar (Senegal)

Jean-Marie Brom, Detector technologies, ESIPAP 2014, 17-19 Feb. 2014, Archamps

Ulrich Goerlach, Particle Detectors, Second Biennal African School on Fundamental Physics and Applications (ASP2012), 15 July to 8 August 2012, Kumasi (Ghana)

## Posters sessions

CERN Summer School, O. Poncet “Tau-ID scale factors”, Peebles, Scotland

ITI QMAT Day, O. Poncet “Tau-ID scale factors”, IPCMS, Strasbourg

Congrès des doctorants de l’ED, O. Poncet, “Why Aren't We Made of Antimatter? Search for Charge Parity Violation in Higgs Decay into Tau Leptons with CMS”, 21 mars 2024, Strasbourg

CMS Week in St Malo, student's poster session: R. Haeberle “Heavy Stable Charged Particles”, O. Poncet “Tau-ID scale factors”, P. Vaucelle “Displaced top quarks”

E. Pfeffer, M. Neukum, D. Bloch et al., Heavy flavor jet tagging algorithm developments at CMS for HL-LHC (poster), LHCP 2022, 16-21 May 2022, Taiwan, online ; proceedings CMS-CR-2022-151, https://indico.cern.ch/event/1109611/contributions/4820687/attachments/2443378/4186382/2022_lhcp-heavy-flavor-jet-tagging_ALTERNATIVE.pdf

Anne-Catherine Le Bihan, CP structure of the tau Yukawa coupling with CMS (poster), EPS 2021, July 26-30 2021, Hamburg, online ; Proceedings: CMS-CR-2021-143, https://doi.org/10.22323/1.398.0575, PoS(EPS-HEP2021)575

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S. Gadrat, …, Emmanuel Medernach, Jerome Pansanel et al., ComputeOps : container for High Performance Computing, Poster Session at CHEP 2019, 4-8 Nov. 2019, Adelaide, Australia.

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