

CURRICULUM VITAE

Personal Data

Family name: **Tziaferi**
Name: **Eirini**
DOB: 22nd March 1980
Marital Status: Married and a mother of a 4 year old daughter and a 6 year old son
Phone: 6949 617816, 2314006720
email: etzia@phys.uoa.gr, e.tziaferi@cern.ch
Current Position: - Postdoctoral Research Associate, University of Athens

Education

2003-2007: PhD in Astroparticle Physics with Prof. Neil Spooner
University of Sheffield, UK
Title of PhD thesis: "Neutron background at the Boulby Underground Laboratory and the DRIFT-IIa directional dark matter detector"
1998-2003: First degree in Physics, (8.2/10, top 5% of class)
Aristotle University of Thessaloniki, Greece

Additional Relevant Training on Particle Physics (Schools)

29/01-04/02/2006 "Hands on SUSY", Training Session on Supersymmetry, Aussois, Modane, France
16-24/09/2005 International School of Nuclear Physics
27th course, "Neutrinos in Cosmology, in Astro, Particle and Nuclear Physics", Ettore Majorana Center for Scientific Culture, Erice, Sicily, Italy
05-17/09/2004 Summer School for Experimentalist High Energy Physics Students, RAL, Oxford, England.
14/07-04/09/2003 DESY Summer School
Hamburg, Germany
14-18/05/2002 School in Plasma Physics - Fusion
Organized by EURATOM
University of Volos, Greece
02-28/07/2001 Summer School in Advanced Physics
University of Crete, Greece

Additional Relevant Training on Education (Schools)

5-7/7/2011 and 28/6-1/7/2010 Summer School on Education in Physics: “Δίαυλοι Επιστημονικής Αναζήτησης στην Εκπαίδευση” organized by the Open University, Patras
Advance training within small groups on the teaching approach of various physics subjects at the high school level.

Academic Research Positions

- 8/2015-current: Post-doctoral Research Associate, University of Athens, Greece.
Experiment “CMS “
- 5/2014 - 7/2015: Post-doctoral Research Associate, University of Athens, Greece.
Experiment “CMS “
(Research award/program “Aristia”)
- 4/2012 - 4/2014: Post-doctoral Research Associate, University of Ioannina, Greece.
Experiment “CMS”
(Research award/program “Aristia”)
- 8/2007 - 7/2009: Post-doctoral Research Associate, University of Zurich, Switzerland. Experiment “XENON100”
- 4/2007 – 7/2007: Post-doctoral Research Associate, RWTH, Aachen, Germany.
Experiment “XENON100”

Teaching Experience

- Spring semester 2019: Teaching Associate in the Physics Department of Aristotle University of Thessaloniki (Greece) for the courses “Theory of Particle Physics” and “ Detectors and Accelerators in Nuclear and Particle Physics”.
(power point presentations, elearning platform)
- Fall semester 2019: Teaching Associate in the Physics Department of Aristotle University of Thessaloniki (Greece) for the course Electrodynamics (Jackson) in the “Graduate Studies in SubAtomic Physics and Technological Applications” postgraduate program.
(power point presentations, elearning platform)
- Spring semester 2017+2018: Teaching Associate in the Polytechnic School of Aristotle University of Thessaloniki (Greece) for the course Quantum-mechanics (power point presentations, elearning platform)

- Fall semester 2017: Physics Instructor at ACT (Thessaloniki, Greece) in the NUin Program. Teaching physics (mechanics) to 1st year students from USA. (power point presentations, moodle and pearson platforms)
- 10/2012 – 2/2013: Teacher in the Public Institute (IEK) of Ioannina (Greece), Course: Special Physics Subjects (written notes)
- 10/2010 – 9/2011: Scientific Associate in the Technical University of Crete (Greece). Teaching courses: Basic Principles of Physics and Introduction to Computers. Lab teaching: Statistics using the statistical program for data analysis in biosciences “SPSS” (power point presentations, use of interactive teaching board, eclass platform)
- 10/2010 – 2/2011 Teacher in the Public Institute (IEK) of Heraklion, Crete (Greece). Course: Special Physics Subjects (written notes)
- 10/2009 - 6/2010: Scientific Associate in the Technical University of Crete (Greece). Lab teaching: General Physics and Statistics using the statistical program for data analysis in biosciences “SPSS” (power point presentations, use of interactive teaching board, eclass platform)
- 11/2009-5/2010: Taught Physics in the 1st and 2nd Lycaeum grades as an hourly paid teacher within the program “Additional Teaching Support (Πρόσθετη Διδακτική Στήριξη)”, Tybakion Highschool, Heraklion, Greece

Laboratory Instructor

- Fall semester 2017: Physics Instructor at ACT (Thessaloniki) in the NUin Program. Teaching physics (mechanics) to 1st year students from USA.
- 9/2007- 05/2009: During my Post-Doctoral research, I have been an instructor in the laboratory of General Physics (Mechanics, Optics, Nuclear Physics, Thermodynamics and Electrical Circuits) to first year undergraduate students of Biology, Chemistry and Medicine in the University of Zurich (Switzerland)
- 10/2004 - 6/2006: During my PhD I have been supervising undergraduate students in the Astronomy laboratory and in problem classes on subjects like Thermal Physics, Quantum Mechanics, Relativity, Optics, Electromagnetism and Mathematical Methods in the University of Sheffield (UK)

Student Supervision

- 5/2014-up to now: Informal co-supervisor of two master level students in the University of Athens, Physics Department, High Energy and Nuclear Physics Section.

Both of them are currently continuing their studies at the PhD level.

Leadership Positions

2/2017-up to now: Appointed as the “Jet Object Expert” of the EXOTICA group of CMS, the largest new physics search group of the experiment. My duties include communicating jet object recommendations (such as jet identification criteria, jet energy corrections, jet energy resolution and uncertainties) to all EXOTICA analyzers, and to verify that the recommended objects are properly implemented and used in the analysis approval procedure of all EXOTICA CMS analyses. I was awarded this position due to my significant expertise on Particle Flow jets (core developer of PF Jet Identification criteria since 2014), and due to my strong involvement in the EXOTICA dijet resonances search (since 2014), one of the ~10 High Priority Analyses of the EXOTICA CMS group.

5/2014 - current: Key/core member of the CMS JETMET group responsible for the development, tuning, maintenance and documentation of the Particle Flow Jet Identification criteria (PFJetID) recommended for use by all CMS analyses.

5/2014 - current: Core member of the CMS Dijet Resonance Search, one of the ~ten “High Priority Analyses” in the context of the CMS Exotica physics group, responsible for the optimization, data selection and data-quality and stability studies.

2017 – current: ARC (Analysis Review Committee) member for several physics analysis in CMS.

Computer Skills

Excellent use of Excell, Power Point, Word, Email software (Outlook etc)
Educational Platforms for uploading teaching material and communication with students: elearning, eclass, moodle, lams (Learning Activity Management System)
Online software for meetings: Skype, Vidyo
Operating systems: UNIX (Linux, Mac) and Windows
Programming languages: C ++, SQL, Python, shell scripting
Software for data analysis: ROOT, PAW, SPSS
Software for simulations: GEANT4
Computer text mark-up languages: LaTeX
CMS software tools: CMSSW, PAT
Version Control: svn, git

Languages

English, French (beginner ´s level)

Communication skills

I give weakly power-point presentations via Vidyo software on the progress of my work. In the last 14 years I have been continuously working within a multi-national and inter-disciplinary environment as a member of three major, global, scientific collaboration. I am used to working within tight timeliness.

Writing skills

I have written a PhD thesis, 22 scientific papers (see section “List of Publications”), numerous analysis reports (see section “CMS Analysis Summaries and Notes”) and physics teaching notes for the Public Institute of Heraklion and Ioannina.

Invited Speaker for Seminars by Several Institutes

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| 10/2017 | University of Athens (Greece), High Energy and Nuclear Physics Section.
Oral presentation: “Jets as a tool for searches for new physics with the CMS experiment” |
| 9/2009 | University of Ioannina (Greece), High Energy and Nuclear Physics Section
Oral presentation: “Seeking for dark matter: direct detection experiments” |
| 5/2009 | Institute of Astroparticle Physics, NESTOR, Pilos (Greece)
Oral Presentation: “The status of the XENON100 experiment” |
| 5/2009 | Institute of Nuclear Physics, Demokritos, Athens (Greece)
Oral Presentation:: “The status of the XENON100 experiment” |
| 2/2007 | University of Aachen, RWTH, (Germany)
Oral Presentation:: “Neutron Background at the Boulby Underground Laboratory and the DRIFT-IIa directional dark matter detector” |

Research Interest

Accelerator Physics (2012-up to date)

As a member of the CMS experiment of the Large Hadron Collider (LHC) at CERN (Geneva, Switzerland) I search for new physics utilizing events with hadronic jets in the final states in the context of the CMS Physics Analysis Group (PAG) “Exotica Searches in Jets+X final states”. Specifically, I was a core member of the group (with the University of Ioannina) that searched for new physics utilizing multi-jet (right jet) events in Run I (2012-2014). Since 2014 I am a key analyzer (with the University of Athens group led by Prof. Saoulidou) of the Dijet Resonance Search with the 13 TeV data. I worked on the analysis optimization, and since data taking started on detailed data-quality studies comparing real with simulated events, on data-stability studies examining the behavior of physics quantities as a function of time, and on the development of a robust data-driven QCD background prediction method that can significantly reduce systematic uncertainties. I very regularly and frequently give presentations in internal CMS working

group meetings, discussing progress on these matters. The Dijet Resonance Search is among the ~ ten High Priority Analysis of the CMS Exotica Group. It yielded the first publication on the search of new physics from LHC with the 13 TeV data, and recently published, among other things, some of the most stringent limits in the search of dark matter with accelerator experiments.

I also study the quality of reconstruction and selection of the hadronic jets (PF Jet Identification criteria) within the CMS Physics Object Group (POG) “Jet Algorithms and Reconstruction”. I lead the careful study and documentation of the PF JetID selection criteria for the 8 TeV data, and in their improvement for the 13 TeV data, which are recommended (mandatory) for all CMS analyses. I am one of the core members of the team which is responsible for this, which is solely a responsibility of the University of Athens (led by Prof. Saoulidou). I present the results of this work very often in the dedicated internal CMS working group meetings. It is important to note that these criteria, which are used by all CMS analyses, made possible the first searches of dark matter utilizing mono-jets events.

Dark Matter Physics (2003-2012)

As a member of the DRIFT experiment for the direct detection of dark matter in the Boulby mine (UK) I significantly contributed on the neutron background measurements which is the most important and dangerous background for these kinds of experiments. In addition, I worked with the prototype detector DRIFT-II with an aim to explore its unique capability of determining the direction of WIMPs (dark matter candidates).

As a member of the XENON100 experiment in the underground laboratory of Gran Sasso (Italy) I led the measurements and calculations through simulations of the neutron background from several sources. I worked in the commissioning phase of the detector (construction and underground installation). Also, I was a core member of the team who was in charge of calibrating frequently the 240 photomultiplier tubes (PMTs) of the detector. After 11.17 live days, XENON100 set the most stringent limit in the spin-independent WIMP-nucleon elastic scattering cross sections, up to that time, among the direct dark matter detection experiments.

Scientific Collaborators

2012- up to date: CMS
2007-2009: XENON100
2003-2007: DRIFT-II

Conferences - Meetings

10-12/5/2017 CMS JetMET Helsinki workshop, Helsinki, Finland,
Oral Presentation: “The PF JetID and the Quark/Gluon tagging”
12-14/5/2016 HEP2016: Conference on recent developments in High Energy
Physics and Cosmology, Thessaloniki, Greece
Oral Presentation: “Search for Narrow Resonances
Decaying to Dijets in Proton-Proton Collisions at 13 TeV”

15-18/4/2015	HEP2015: Conference on recent developments in High Energy Physics and Cosmology, Athens, Greece Oral Presentation: "Dijet resonance searches at CMS"
12-14/11/2014	CMS Exotica Workshop 2014, CIEMAT, Madrid, Spain Oral Presentation: "Dijet Resonance Mass Reconstruction"
29/06-03/07/2009	Invisible Universe International Conference, Paris, France Oral Presentation: "The status of the XENON100 experiment"
16-20/06/2008	4th Patras Axions, WIMPs conference, Hamburg, Germany Oral Presentation: "The expected neutron background in XENON100 experiment"
4-7/11/2007	11th Meeting of the German Female Physicists, Osnabrueck, Germany Plenary talk: "Hunting WIMPs and the XENON100 experiment"
18-23/06/2007	3rd Patras Axions, WIMPs conference, Patras
21-22/10/2006	BUS-2006: Boulby Underground Science Workshop, York (Local Organiser)
11-16/09/2006	6th Identification of Dark Matter (IDM), Rhodes Oral Presentation: "Results from Neutron Background Measurement at Boulby Mine"
18-19/05/2006	Joint ILIAS-CAST-CERN Axion Training Session, Patras Oral Presentation: "Potential Detection of KK Axions with DRIFT"
14/02/2006	J1: Low Background Techniques for Deep Underground Science, 3rd General meeting ILIAS, Paris Oral Presentation: "Neutron Background Measurement at Boulby Mine"
11-15/05/2005	1st Annual Meeting of the European Network on Theoretical Astroparticle Physics, ILIAS, Valencia
21-24/04/2005	Workshop of the Hellenic Society of Physics, Thessaloniki
06/02/2005	ILIAS, N3 Advanced Detector Meeting, Prague Oral Presentation: "Directional Recoil Identification From Track, DRIFT II"
07-09/02/2005	2nd General meeting ILIAS, Prague
04/2004	Institute of Physics (IOP), Particle Physics conference, Birmingham, UK. Poster: "Preliminary results from DRIFT I" (2nd prize)

List of Publications with significant personal contribution

1. CMS Collaboration, J. High Energy Phys. (2018) 130, "Search for narrow and broad dijet resonances in proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on dark matter mediators and other new particles"
2. CMS Collaboration, PLB 769 (2017) 520542, "Search for dijet resonances in proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on dark matter and other models"
3. CMS Collaboration, PLB 770 (2017) 256-267, "Search for new phenomena in events with high jet multiplicity and low missing transverse momentum in proton-proton collisions"

sions at $\sqrt{s}=8\text{ TeV}$ "

4. CMS Collaboration, PRL 116, 071801 (2016), "Search for Narrow Resonances Decaying to Dijets in Proton-Proton Collisions at 13 TeV"
5. E. Aprile et al., J. Phy. G40 (2013) 115201, "The neutron background of the XENON100 dark matter search experiment"
6. E. Aprile et al, Astroparticle Physics 35 (2012), 573-590, "*The XENON100 dark matter experiment*"
7. E. Aprile et al., Astroparticle Physics 35 (2011) 43-49, "*Material screening and selection for XENON100*"
8. E. Aprile et al. Physical Review D 84, 052003 (2011), "*Likelihood approach to the first dark matter results from XENON100*"
9. E. Aprile et al, Physical Review D 83, 082001 (2011): "*A study of the electromagnetic background in the XENON100 experiment*"
10. E. Aprile et al, Physics Review Letter 105, 131302 (2010): "*First Dark Matter Results from the XENON100 Experiment*"
11. S. Ahlen et al, International Journal of Modern Physics A 25-1 (2010) 1-51, "*The case for a directional dark matter detector and the status of current experimental efforts*"
12. S. Burgos et al, Journal of Instrumentation (JINST) 4 P04014 (2009): "*Low energy electron and nuclear recoil thresholds in the DRIFT-II negative ion TPC for dark matter searches*"
13. D. Snowden-Ifft et al, NIM A 600 (2009) 417-423: "Measurements of the range component directional signature in DRIFT-II detector using ^{252}Cf neutrons"
14. T.B. Lawson et al, NIM A 584 (2008) 114-128 "Track reconstruction and performance of DRIFT directional dark matter detectors using alpha particles"
15. E. Tziaferi et al, Astroparticle Physics 27 (2007) 326-338: "First measurement of low intensity fast neutron background from rock at the Boulby Underground Laboratory"
16. D. Snowden-Ifft et al., Astroparticle Physics 28 (2007) 409-421: "Studies of neutron detection and backgrounds with the DRIFT-IIa dark matter detector"
17. D. Yu. Akimov et al., Astroparticle Physics 27 (2007) 46-60: "*The ZEPLIN-III dark matter detector: instrument design, manufacture and commissioning*"
18. G.J. Alner et al, Astroparticle Physics 28 (2007) 287-302 "*First limits on WIMP nuclear recoil signal in ZEPLIN-II: A two phase xenon detector for dark matter detection*"
19. H.M. Araujo et al., Astroparticle Physics 26 (2006) 140-153: "The ZEPLIN-III dark matter detector; performance, study using end-to-end simulation tool"
20. G. J. Alner et al., Physics Letter B 616 (2005) 17-24: "Limits on WIMP cross-sections from the NAIAD experiment at the Boulby Underground Laboratory"
21. M. Carson et al, NIM A 546 (2005) 509-522: "Simulations of neutron background in a time projection chamber relevant to dark matter searches"
22. G.J. Alner et al., NIM A 555(2005) 173-183: "The DRIFT-II dark matter detector: Design and commissioning"

Proceedings Papers

1. E. Tziaferi, Proceedings of the Invisible Universe International Conference (2009), Paris, France: "*The XENON100 experiment*", AIP Conference Proceedings:1241:458-462, 2010, ed. Jean-Michel Alimi and Andre Fuzfa.
2. M. Schumann, E. Tziaferi, Proceedings of the 4th Patras Axions, WIMPs conference

(2008), Hamburg, Germany: “The XENON100 experiment” (p83), Verlag Deutsches Elektronen-Synchrotron, ed. A.Lindner, J. Redondo and A.Ringwald.

3. E.Tziaferi et al., Proceedings of the 6th IDM workshop (2006), Πόδος: “First measurement of low intensity fast neutron background from rock at the Boulby Underground Laboratory”, World Scientific, ed. M.Axenides, G.Fanourakis and J.Vergados.

CMS Physics Analysis Summaries (PAS) : Public Documents

1. The CMS Collaboration, “Search for dijet resonances in proton-proton collisions at $\sqrt{s} = 13$ TeV with the full Run II data”, EXO-19-012 (2019)
2. The CMS Collaboration, “Pileup mitigation at CMS in 13 TeV data”, JME-18-001 (2019)
3. The CMS Collaboration, “Searches for dijet resonances in pp collisions at $\sqrt{s} = 13$ TeV using the 2016 and 2017 datasets”, CMS PAS EXO-17-026 (2018)
4. The CMS Collaboration, “Search for dijet resonances in p-p collisions at $\sqrt{s} = 13$ TeV using up to 36fb^{-1} ”, CMS PAS EXO-16-056 (2017).
5. The CMS Collaboration, “Search for narrow resonances decaying to dijets in pp collisions at $\sqrt{s} = 13$ TeV using 12.9fb^{-1} ”, CMS PAS EXO-16-032 (2016).
6. The CMS Collaboration, “Jet Algorithm Performance in 13 TeV data”, CMS PAS JME-16-003 (2016).
5. The CMS Collaboration, “Search for narrow resonances using the dijet mass spectrum with 42pb^{-1} of pp collisions at $\sqrt{s} = 13$ TeV”, CMS PAS EXO-15-001 (2015).
6. The CMS Collaboration, “Search for new physics in multijet final states at $\sqrt{s} = 8$ TeV”, CMS PAS EXO-13-001 (2015).

CMS Analysis Notes : Internal Documents (Restricted access. Available at <http://cms.cern.ch/iCMS/jsp/iCMS.jsp?mode=single&block=publications>)

1. CMS AN-19-073: “Searches for dijet resonances in pp collisions at $\sqrt{s} = 13$ TeV using the full Run II datasets”
Authors: Magda Diamantopoulou, Dimitris Karasavvas, Niki Saoulidou, Eirini Tziaferi, Ilias Zisopoulos, Maurizio Pierini, Ali Eren Simsek, Yalcin Guler, Emine Gurpinar, Javier Duarte, Robert Harris, Mikko Voutilainen, Federico De Guio, Shuichi Kunori, Sung-Won Lee and (Tyler) Zhixing Wang
2. CMS AN-2017-348: - “Searches for dijet resonances in pp collisions at $\sqrt{s} = 13$ TeV using the 2016 and 2017 datasets”
Authors: Magda Diamantopoulou, Dimitris Karasavvas, Niki Saoulidou, Eirini Tziaferi, Maurizio Pierini, Serdal Damarseckin, Yalcin Guler, Emine Gurpinar, Javier Duarte, Robert Harris, Mikko Voutilainen, Giulia D’imperio, Federico Preiato, Chiara Rovelli, Francesco Santanastasio, Federico De Guio, Shuichi Kunori, Sung-Won Lee, and Zhixing Wang

3. .CMS AN-2018-093 - "Performance of the Particle-Flow jet identification criteria using proton-proton collisions at 13 TeV for Run2017 data"

Authors: M.Diamantopoulou, D. Karasavvas, N.Saoulidou and E.Tziaferi

4. CMS AN-2017-074 - "Performance of the particle flow jet identification criteria using proton-proton collisions at $\sqrt{s} = 13$ TeV for Run2016 data"

Authors: M.Diamantopoulou, N.Saoulidou and E.Tziaferi

5. CMS AN-2017/013 - "Search for dijet resonances in p-p collisions at $\sqrt{s} = 13$ TeV usng up to 36fb^{-1} "

Authors: Magda Diamantopoulou, Dimitris Karasavvas, Niki Saoulidou, Eirini Tziaferi, Dustin Anderson, Maurizio Pierini, Serdal Damarseckin, Yalcin Guler, Javier Duarte, Robert Harris, Juska Pekkanen, Mikko Voutilainen, Giulia D'Imperio, Federico Preiato, Chiara Rovelli, Francesco Santanastasio, Federico De Guio, Emine Gurpinar, Shuichi Kunori, Sung-Won Lee, (Tyler) Zhixing Wang, and Bora Isildak

5.CMS AN-2016/238 – "Search for dijet resonances at high mass using data collected at 13 TeV in 2016"

Authors: Niki Saoulidou, Eirini Tziaferi, Dimitris Karaasavvas, Dustin Anderson, Artur Apresyan, Si Xie, Javier Duarte, Maurizio Pierini, Robert Harris, Juska Pekkanen, Mikko Voutilainen, Dinko Ferencek, Lucija Bajan, David Sheffield, Amitabh Lath, Federico Preiato, Francesco Santanastasio, Federico De Guio, Tyler Zhixing Wang, Sung-Won Lee

6.CMS AN-2016/202 – "Search for narrow resonances decaying to dijets in pp collisions at $\sqrt{s}=13$ TeV using 12.9fb^{-1} "

Authors: Niki Saoulidou, Eirini Tziaferi, Dimitris Karasavvas, Dustin Anderson, Artur Apresyan, Si Xie, Javier Duarte, Maurizio Pierini, Robert Harris, Juska Pekkanen, Mikko Voutilainen, Lucija Bajan, Dinko Ferencek, Abhijith Gandrakota, Ian Graham, Amitabh Lath, David Sheffield, Federico Preiato, Francesco Santanastasio, Federico De Guio, Sung-Won Lee, Zhixing Wang, and Bora Isildak

7.CMS AN-2016/156 – "Search for dijet resonances using Calo scouting at $\sqrt{s}=13\text{--}14$ TeV using data collected in 2015"

Authors: Nural Akchurin, Dustin Anderson, Artur Apresyan, Lucija Bajan, Ayse Bat, John Paul Chou, Magda Diamantopoulou, Frederico De Guio, Serdal Demarseckin, Javier Duarte, Dinko Ferencek, Maxime Gouzevitch, Emine Gurpinar, Robert Harris, Andreas Hinzmann, Bora Isildak, Dimitris Karasavvas, Konstantinos Kousouris, Shuichi Kunori, Amitabh Lath, Sung-Won Lee, Georgios Mavromanolakis, Sertac Ozturk, Juska Pekkanen, Maurizio Pierini, Frederico Preiato, Francesco Santanastasio, Eytyxia Sagkrioti, Niki Saoulidou, David Sheffield, Eirini Tziaferi, Mikko Voutilainen, Si Xie

8.CMS AN-2016/145 – "Search for dijet resonances from data scouting at $\sqrt{s}=13$ TeV using 1.9fb^{-1} collected in 2015"

Authors: Nural Akchurin, Dustin Anderson, Artur Apresyan, Lucija Bajan, Ayse Bat, John Paul Chou, Magda Diamantopoulou, Frederico De Guio, Serdal Damarseckin, Javier Duarte, Dinko Ferencek, Maxime Gouzevitch, Emine Gurpinar, Robert Harris, Andreas Hinzmann, Bora Isildak, Dimitris Karasavvas, Konstantinos Kousouris, Shuichi Kunori, Amitabh Lath, Sung-Won Lee, Georgios Mavromanolakis, Sertac Ozturk, Juska

Pekkanen, Maurizio Pierini, Federico Preiato, Francesco Santanastasio, Eytyxia Sagkrioti, Niki Saoulidou, David Sheffield, Eirini Tziaferi, Mikko Voutilainen, Si Xie

9.CMS AN-2015/269 – “Performance of the Particle-Flow jet identification criteria using proton-proton collisions at 13 TeV with the 2015 dataset”

Authors: M.Diamantopoulou, N.Saoulidou and E.Tziaferi

10.CMS AN-2015/175 – “Search for narrow resonances using the dijet mass spectrum with 2.45 fb⁻¹ of proton-proton collisions at $\sqrt{s}=13\sim\text{TeV}$ ”

Authors: Niki Saoulidou, Eirini Tziaferi, Melpomeni Diamantopoulou, Eytyxia Sagkrioti, Dimitris Karasavvas, Konstantinos Kousouris, Georgios Mavromanolakis, Maurizio Pierini, Maxime Gouzevitch, Emine Gurpinar, Sertac Ozturk, Ayse Bat, Robert Harris, Juska Pekkanen, Mikko Voutilainen, John Paul Chou, Dinko Ferencek, Giulia D'imperio, Federico Preiato, Daniele del Re, Francesco Santanastasio, Nural Akchurin, Zhixing [Tyler] Wang, Shuichi Kunori, Sung-Won Lee, Cosmin Dragoiu, Andreas Hinzmann, Bora Isildak

11.CMS AN-2015/063 – “Search for narrow resonances using the dijet mass spectrum in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$ (Phys14 MC analysis)”

Authors: Niki Saoulidou, Eirini Tziaferi, Melpomeni Diamantopoulou, Eytyxia Sagkrioti, Dimitris Karasavvas, Konstantinos Kousouris, Georgios Mavromanolakis, Maurizio Pierini, Maxime Gouzevitch, Emine Gurpinar, Sertac Ozturk, Robert Harris, Juska Pekkanen, Mikko Voutilainen, John Paul Chou, Dinko Ferencek, Giulia D'imperio, Federico Preiato, Daniele del Re, Francesco Santanastasio, Nural Akchurin, Christopher Cowden, Shuichi Kunori, Sung-Won Lee, Cosmin Dragoiu, Andreas Hinzmann, Bora Isildak

12.CMS AN-2014/227 – “Performance of the Particle-Flow jet identification criteria using proton-proton collisions at $\sqrt{s}=8\text{ TeV}$ ”

Authors: Eirini Tziaferi , Niki Saoulidou

12.CMS AN-2013/110 – “Search for New Physics in Multijet Final States at $\sqrt{s} = 8\text{ TeV}$ ”

Authors: D. Duggan, A. Ferapontov, C. Fountas, B. Isildak, P. Kokkas, K. Kousouris, G. Landsberg, I. Papadopoulos, E. Paradas, T. Sinthuprasith, and E.Tziaferi