

Agustín Sánchez Losa

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Curriculum Vitæ

Current Professional Situation

position “Excellent Researcher with International Experience” **CIDEGENT**
institute IFIC (Spain)
group ANTARES – KM3NeT

Education

25/09/2015 **PhD in Physics**, *University of Valencia*, co-direction between **IFIC-CPPM**.

“Doctorado en Física con Mención Internacional”

“*Search for High Energy Cosmic Muon Neutrinos from Variable Gamma-Ray Sources and Time Calibration of the Optical Modules of the ANTARES Telescope*”

(*e-link: <http://ific.uv.es/~agusanlo/tesis/>*)

Supervisors: J. J. Hernández-Rey (IFIC) & D. Dornic (CPPM)

Final Mark: **Summa Cum Laude**

Award: **The Global Neutrino Network Dissertation Prize 2016**

17/12/2010 **MSci in Advanced Physics**, *University of Valencia*.

“Máster Universitario en Física Avanzada”

“*Developing an Automate Procedure for the Time Calibration of the ANTARES Neutrino Telescope*”

(*e-link: http://ific.uv.es/~agusanlo/tesis_master/*)

Supervisor: J. Zúñiga (University of Valencia)

Final Mark: **8.01/10**

25/09/2009 **BSc in Physics** (5 years degree), *University of Valencia*.

“Licenciado en Física (Plan 2000)”

Final Mark: **6.9/10**

Employment

01/04/2021 - On-going | **Research Fellow**, IFIC (Spain)

Winner of a 4+2 year **CIDEGENT** research fellow (CIDEGENT/2020/049: “Multimessenger astronomy in the KM3NeT observatory: gravitational waves, gamma rays and cosmic neutrinos”) with a 50000 €/year project for excellent researchers with international experience by the Generalitat Valenciana co-founded by CSIC (Spain) at IFIC (Valencia, Spain).

01/04/2020 - 31/03/2021 | **Postdoctoral Research Assistant**, INFN – Sezione di Bari (Italy)

Winner of a Postdoc. Res. Ass. 1+1 year position (*assegno di ricerca*) at INFN (Italy), used only the first year, to collaborate in research activities on neutrino experiments on INFN – Sezione di Bari (bando INFN 21730/2019).

07/02/2018 - 06/02/2020 | **Postdoctoral Research Assistant**, INFN – Sezione di Bari (Italy)

Winner of a Postdoc. Res. Ass. 1+1 year position (*assegno di ricerca*) at INFN (Italy), used in all its extension, to collaborate in research activities on neutrino experiments on INFN – Sezione di Bari (bando INFN 19356/2017).

15/10/2015 - 14/10/2017 | **Research Fellowship**, INFN – Sezione di Bari (Italy)

Winner of one out of 20 postdoctoral research fellowships on experimental physics for non-italian citizens of INFN (Italy, bando INFN 16725) used in all its extension.

01/09/2010 - 31/08/2014 | **PhD Fellowship with Contract**, IFIC (Spain)

Winner of a Spanish government FPI fellowship (BES-2010-033616, including 2 years of contract) to realize a Physics PhD on the experimental group of ANTARES/KM3NeT at IFIC (Valencia, Spain) used in all its extension.

11/05/2010 - 31/08/2010 | **Pre-PhD Contract**, IFIC (Spain)

Winner of a fixed-term contract of CSIC (Spain) a superior technician to do research activities in the ANTARES/KM3NeT group at IFIC (Valencia, Spain) used until next fellowship begun.

Research Fields and Summary

Neutrino Telescopes • High Energy Experimental Physics
Astro-Particle Physics • Transient Analyses • Multi-Messenger Approaches

My research interests are oriented to the astro-particle physics field in an experimental base.

My research activity is focused on Experimental Astroparticle Physics with a strong emphasis in the multimessenger approach, where data from multiple messengers (e.g. photons, gravitational waves and neutrinos) are combined to extract information about their sources.

Since I received my Physics degree from the “Universitat de València” in 2009 I have been working on two neutrino telescopes, **ANTARES** and **KM3NeT** international collaborations, both in detector development and in physic analyses on the search of cosmic neutrino sources and the understanding of the origin of the most energetic cosmic rays.

Since my PhD, mostly carried out at **IFIC (Spain)**, until today, I have been analyzing ANTARES data in coincidence with X-ray and gamma-ray transient emissions of cosmic neutrino source candidates, like X-Ray Binaries and Active Galactic Nuclei. I extracted the time emission assumption from the gamma-ray telescope FERMI and the X-ray telescopes SWIFT, ROSSI and MAXI data (with a Bayesian method for emission period characterization developed by myself), and also from the data published by the Imaging Air Shower Cherenkov Telescopes MAGIC, H.E.S.S. and VERITAS. Neutrino point-like source searches improve a factor 2—3 when this transient constrain is considered, allowing me to improve the limits on neutrino emission in the studied hypotheses. I applied also these methods to analyze ANTARES data during the IceCube neutrino flares found associated to the blazar TXS 0506+056, where I constrained the neutrino fluence. These analyses have been presented in 8 contributions in international conferences and in 3 publications. The methods applied to these analyses were developed through stages in institutes with experts on neutrino point source and multimessenger analyses like **Nikhef (Netherlands)** and **CPPM (France)**.

My PhD was awarded with **The Global Neutrino Network Dissertation Prize 2016**, granted yearly to the most outstanding thesis in the neutrino telescope projects ANTARES, Baikal-GVD, IceCube and KM3NeT by the Global Neutrino Network.

Time calibration, crucial to event reconstruction and to achieve the required angular resolution in neutrino telescopes for point source analyses, has been an important part of my work.

From 2010 to 2015, I coordinated the ANTARES time calibration and performed the one by means of Optical Beacons. During my MSci, I developed the procedure to carry out these calibrations and established its monitoring requirements. In ANTARES, since 2016, I am producing the ensemble of all the calibrations for data processing and Monte Carlo production and since 2020 I am the **coordinator of the calibration working group**.

In KM3NeT, I have coordinated the muon time calibrations for more than a year and supervised, reviewed and co-coordinated the settling of the calibration procedures of KM3NeT Detection Units in the dark room for mass production, calibrations of which coordination and correct merging from the different integration sites for in situ use I am in charge since 2018. As a result of my experience, since 2018 I have been nominated by the KM3NeT Management the **Calibration Custodian**, an official figure that coordinates calibration releases, validity and applicability for data analysis and Monte Carlo production.

Moreover, from 2016 to 2021 I have been the **Local Quality Supervisor (Internal Auditor ISO-9001 certified)** in the KM3NeT integration site at **INFN in Bari (Italy)**, to supervise and assert the necessary quality requirements there for KM3NeT feasibility. There, I also have participated in prototype tests and assembling of Base Modules, a crucial part of the detector, knowledge that I have transferred to other integration sites of the collaboration. I helped also in building up the experience used to establish the procedures for mass production of this component.

I have a wide experience in ANTARES and KM3NeT detector operation, as shifter and run coordinator and participated in various sea operations of ANTARES. I performed also many quality studies, data and Monte Carlo analyses, DB integrity studies, numerous software contributions to ANTARES and KM3NeT collaborations, internal editorial board roles and Master and PhD student training in calibration and cosmic neutrino analysis techniques. I am currently **thesis director of 3 PhD students** working in different kinds of transient multimessenger analyses in both ANTARES and KM3NeT. I participated in 6 open day outreach activities and multiple school visits and outreach talks. I also was in the Local Organizing Committee of the Very Large Volume Neutrino Telescope Workshop 2021 and three meetings of the ANTARES & KM3NeT collaborations.

I realized long stays in relevant institutes of ANTARES and KM3NeT collaborations: Nikhef (Netherlands); CPPM (France); IFIC (Valencia) where I did my MSci and PhD and since 2021 I work as **Distinguished Researcher with a CIDEAGENT excellence grant**; INFN – Sezione di Bari (Italy) where I accumulated 5 years of post-doctoral experience.

Coordination & Supervision

o Coordination roles:

- ANTARES Calibration Working Group coordinator, **2020 – present**.
- KM3NeT Calibration Custodian, **2018 – present**.
- KM3NeT Local Quality Supervisor INFN – Sezione di Bari, **2016 – 2021**.
- ANTARES Time Calibration coordinator, **2010 – 2015**.

o Local Organizing Committee:

- KM3NeT Face-2-Face Astro WG Meeting, Valencia (Spain), 31 August – 2 September **2022**.
- VLVnT 2021 (Workshop on Very Large Volume Neutrino Telescopes), *on-line*, 18–21 May **2021**.
- ANTARES-KM3NeT Collaboration Meeting, Bari (Italy), 12–16 June **2017**.
- ANTARES-KM3NeT Collaboration Meeting, Valencia (Spain), 23–27 February **2015**.

o PhD Theses:

- “*Multi-messenger Astronomy with Neutrino Telescopes*”, Sergio Alves Garre, University of Valencia, **On-going**.
- “*Search for cosmic neutrinos sources with the KM3NeT/ARCA detector in a multi-messenger context*”, Juan Palacios González, University of Valencia, **On-going**.
- “*Multimessenger search of cosmic neutrino sources and calibration of the KM3NeT neutrino telescope*”, Emilio Jesús Pastor Gómez, University of Valencia, **On-going**.

o MSci Theses:

- “*Track Reconstruction Algorithms in the ANTARES and KM3NeT Neutrino Telescopes*”, Alfonso Lazo Pedrajas, University of Valencia, **July 2021**.

- “*Caracterización de periodos en curvas de luz: análisis de series temporales y maximum likelihood blocks en curvas de rayos gamma*”, Javier Beltrán Oltra, University of Valencia, **September 2021**.

o **Other:**

- “Research stages” for non-experimental MSci in Advanced Physics in University of Valencia:
 - “*Correlación de neutrinos cósmicos con fuentes extragalácticas.*”, Juan García Méndez, University of Valencia, **2021 – 2022**.
 - “*Caracterización de periodos de emisión flaring en rayos gamma de blazars*”, Mario Roberto Coto Antúnez, University of Valencia, **2021 – 2022**.
- IFIC Summer Student Programme 2022: 2 students, **18 – 29 July 2022**.
- **Community Manager** and **webmaster** of the Valencia Experimental Group of Astroparticles, **2021 – present**.
- **12 ANTARES shifts** of one week each performed, **2011 – 2021**.
- **6 KM3NeT shifts** of one week each performed, **2016 – 2021**.
- **6 weeks** of **KM3NeT run coordinator**, **2016**.

Research Projects

- o “*Multimessenger astronomy in the KM3NeT observatory: gravitational waves, gamma rays and cosmic neutrinos*”, 408,735.34 €, Plan GenT-Modalidad 1, ref. CIDEAGENT/2020/049, regional funding, Comunitat Valenciana (Spain), 2021 – 2025. **Principal Investigator**.
- o “*CSIC contribution to the ESFRI KM3NeT 2.0 project: promoting research in astrophysics and fundamental physics*”, 99,638.26 €, “Programa CSIC en Grandes Infraestructuras de Investigación Europeas”, ref. INFRA23013, national funding, Spain, 2023 – 2025. Scientific team member.
- o “*Neutrino telescopes for fundamental physics and multimessenger astronomy (NOSTRUM)*”, 919,600.00 €, “Programa Estatal para Impulsar la Investigación Científico-Técnica y su Transferencia - Subprograma Estatal de Generación de Conocimiento”, ref. PID2021-124591NB-C41, national funding, Spain, 2022 – 2025. Scientific team member.
- o “*Participación del IFIC en ANTARES Y KM3NET*”, 237,510.00 €, “Proyectos de Investigación Fundamental no Orientada 2012”, ref. FPA2012-37528-C02-01, national funding, Spain, 2013 – 2015. Scientific team member.
- o “*Participación del IFIC en los telescopios de neutrinos ANTARES Y KM3NET*”, 792,550.00 €, “Programa Nacional de Formación de Recursos Humanos de Investigación 2010”, ref. FPA2009-13983-C02-01, national funding, Spain, 2010 – 2012. Scientific team member.

Public Outreach

- Guided School visits to IFIC ANTARES/KM3NeT laboratories (**2014 – 2015, 2021 – present**).
- Open days:
 - IFIC: **Expociencia 2013, Expociencia 2014, Expociencia 2015, Expociencia 2022**.
 - Nikhef: **Open Dag Science Park 2011**.
- European Researchers' Night - Apulia:
 - **ERN 2019**: “*PACK? SÌ, GRAZIE!*”, Bari (Italy), 27 September 2019.
 - **ERN 2018**: “*KM3NeT, un telescopio sotto il mare*”, Bari (Italy), 28 September 2018.
- Talk about neutrino telescopes for “*Foro de Ciencia*”, Salesianos Paseo de Extremadura High School, Madrid (Spain), *on-line*, 25 November **2020**.
- Talk about astro-particles for high-school students at *Colegio Nuestra Señora de Fátima*, Valencia (Spain), 5 April **2023**.

Stages in Laboratories

1. **IFIC** (*Instituto de Física Corpuscular*), Valencia (Spain) (8 years)
The IFIC institute has developed the optical beacon system of ANTARES and is in charge of its time calibration. It also performs point-source and dark matter analyses. Here is where I made my MSci and PhD. Contact people: J.J. Hernández-Rey / J.D. Zornoza / J. Zúñiga.
01/04/2021 – present (2 years) | November 2009 – October 2015 (6 years)
2. **INFN – Sezione di Bari** (*Istituto Nazionale di Fisica Nucleare*), Bari (Italy) (5 years)
The INFN – Sezione di Bari has participated in the early developing phases of the base modules of KM3NeT lines, being one of the KM3NeT integration sites, and is in charge of the KM3NeT detector unit integration coordination and ANTARES time calibration coordination. There, in addition to carried out time dependent analysis for ANTARES and other tasks for both KM3NeT and ANTARES, I participated in various base module integrations and was the Local Quality Supervisor of the Bari integration site, with an ISO-9001 certification for internal quality audits. Contact people: M. Circella / I. Sgura / M. De Palma.
01/04/2020 – 31/03/2021 (1 year) | 07/02/2018 – 06/02/2020 (2 years)
15/10/2015 – 10/11/2017 (2 years)
3. **CPPM** (*Centre de Physique des Particules de Marseille*), Marseille (France) (1 year)
The CPPM is the home institute of the ANTARES experiment. Due to its proximity to the ANTARES site most of the operations have base on it. There I took part in various sea operations and designed the analyses of my PhD under the supervision of D. Dornic, the responsible of transient and multi-messenger analyses in ANTARES and currently in KM3NeT, who I am still collaborating after the PhD. Contact people: P. Coyle / V. Bertin / D. Dornic.
19/11/2017 – 20/12/2017 (invited, 4 weeks)
03/06/2013 – 28/10/2013 (21 weeks) | 13/01/2013 – 31/01/2013 (3 weeks)
23/09/2012 – 27/09/2012 (1 week) | 02/03/2012 – 27/06/2012 (16 weeks)
4. **Nikhef** (*Nationaal instituut voor subatomaire fysica*), Amsterdam (Netherlands) (2.5 months)
The Nikhef institute has play an important role in the ANTARES point-source analysis among others. There I learnt to use and designed the analysis tools I employed to my work coached by A. Heijboer and C. Bogazzi. Contact people: D. Samtleben / M. de Jong / A. Heijboer.
04/10/2011 – 15/12/2011 (10 weeks)

Schools & Workshops

1. **Julia for scientists**: Introductory course to Julia programming language
IFIC, Valencia (Spain), 2–6 May 2022
2. **Fundamentals of Accelerated Computing with CUDA C/C++**: certificate obtained during the **2nd COMCHA School** with dedicated lectures on Artificial Intelligence and Machine Learning, and programming in new accelerator platforms such as GPUs and FPGAs
IFIC, Valencia (Spain), 24 November – 2 December 2021
3. **Internal Auditor ISO-9001 Seminar**: seminar to obtain the ISO-9001:2015 internal auditor certificate to train KM3NeT Local Quality Supervisors provided by TÜV HELLAS
NCSR Demokritos, Athens (Greece), 18–20 September 2017
4. **The Universe in light of Planck and BICEP2**: master and doctorate course about cosmology, inflation and experimental observations curso di máster y doctorado de cosmología, inflación y observaciones experimentales
Facoltà di Fisica, Università di Valencia, Valencia (Spain), 12–16 May 2014

5. **Advanced C++ Course:** Course of the new standards in C++11 and C++14 *Curso sobre los nuevos estándares en C++11 y C++14*
IFIC, Valencia (Spain), 10–16 April 2014
6. **Statistical Analysis Tools for Particle Physics:** TMVA (Toolkit for Multivariate Data Analysis) workshop within the IDPASC School of Flavour Physics
IFIC, Valencia (Spain), 6–7 May 2013
7. **Workshop on Dark Matter tools and Hands-on Fermi analysis:** FERMI/NASA tools software workshop
IFIC, Valencia (Spain), 22–26 April 2013
8. **ISAPP Paris 2012** (*International School on Astroparticle Physics*)
APC, Paris (France), 2–13 July 2012
9. **SeaTray & AntDST Workshop:** ANTARES internal software workshop
ECAP, Erlangen (Germany), 17–18 September 2011
10. **ISAPP Zaragoza 2010** (*International School on Astroparticle Physics*)
University of Zaragoza, Zaragoza (Spain), 13–22 July 2010

Computing Skills

C / C++ / C# • **Python** (pandas/numpy/scikit/jupyter) • **Julia**
Bash / Shell Scripting • **Perl** • **CERN–ROOT** • **Mathematica** • **SQL**
GIT / SVN • **docker / Singularity** • **HTML / HTML5 / CSS / JS** • **T_EX / L_AT_EX**

I have used all those languages extensively for my work. Additionally I have learnt and used the **Fermi Science Tools** software, conceived for the processing of the Fermi satellite data, and I am also familiarized with the astronomic digital file format **FITS** and its analysing with the SAOImage DS9 and fv FITS Viewer software. For the ANTARES data analysis I have used the **Antares-DAQ** software package and been introduced to the **SeaTray** framework, adapted from the **IceTray** open source, among other internal software tools of ANTARES like **AntDST**. For the KM3NeT data analysis I have used the **Jpp** software package and developed code for the KM3NeT Data Base web interface and the **km3pipe** python software package. Less related to research are my working knowledge of Excel/Calc, usage of Powerpoint/Beamer, Illustrator/Inkscape, Photoshop/GIMP, HTML/CSS/JS and a wide working experience in Unix and Windows systems.

Language Knowledge

English	Professional proficiency	<i>Con conversationally fluent</i>
Italian	Professional proficiency	<i>Con conversationally fluent</i>
Spanish	Native proficiency	

Presentations at international conferences

14. **COST QGMM Workshop 2022** | Naples (Italy), 11–12 July 2022
Talk: “Multi-messenger Astronomy with High-Energy Neutrinos”
(Invited)
13. **Neutrino 2022** | Seoul (South Korea), 30 May – 4 June 2022
Poster: “Follow-up of IceCube alerts with KM3NeT ARCA and ORCA”
[doi:10.5281/zenodo.6805372]
12. **ICRC 2021** | Berlin (Germany), 12–23 July 2021
Poster: “KM3NeT/ARCA sensitivity to transient neutrino sources”
Proceedings of Science (ICRC2021) 1162 [doi:10.22323/1.395.1162]
11. **TEXAS 2019** | Portsmouth (United Kingdom), 15–20 December 2019
Talk: “Status and Prospects of Mediterranean Neutrino Telescopes: KM3NeT & ANTARES”
10. **UHECR 2018** | Paris (France), 08–12 October 2018
Talk: “Latest results on high-energy cosmic neutrino searches with the ANTARES neutrino telescope”
The European Physical Journal Web of Conferences 210, 03004 (2019)
[doi:10.1051/epjconf/201921003004]
9. **ICRC 2017** | Busan (South Korea), 12–20 July 2017
Talk: “Time-dependent search of neutrino emission from X-ray and gamma-ray binaries with the ANTARES telescope”
Proceedings of Science (ICRC2017) 971 [doi:10.22323/1.301.0971]
Poster: “Time-dependent search of neutrino emission from bright gamma-ray flaring blazars with the ANTARES telescope”
Proceedings of Science (ICRC2017) 970 [doi:10.22323/1.301.0970]
8. **RICAP-16** | Frascati (Italy), 21–24 June 2016
Talk: “Results from the ANTARES Neutrino Telescope”
The European Physical Journal Web of Conferences 136, 04002 (2017)
[doi:10.1051/epjconf/201713604002]
7. **ICRC 2015** | The Hague (Netherlands), 30 July – 6 August 2015
Talk: “Time-dependent search of neutrino emission from X-ray binaries with the ANTARES telescopes”
Proceedings of Science (ICRC2015) 1046 [doi:10.22323/1.236.1046]
Poster: “Time-dependent search of high energy cosmic neutrinos from variable Blazars with the ANTARES telescope”
Proceedings of Science (ICRC2015) 1075 [doi:10.22323/1.236.1075]
6. **APP (TeVPA/IDM) 2014** | Amsterdam (Netherlands), 23–28 June 2014
Talk: “Search of a neutrino signal with the ANTARES telescope based on multi-messenger analyses”
(*Contribution #263 of Astroparticle Physics 2014*)
5. **Bienal 2013** | Valencia (Spain), 15–19 July 2013
Talk: “Search for neutrino emission in gamma-ray flaring blazars with the ANTARES telescope”
Published in [ISBN:978-84-616-5607-3] contribution #326 (2013)
4. **ICRC 2013** | Rio de Janeiro (Brazil), 2–9 July 2013
Poster: “Search for neutrino emission of gamma-ray flaring blazars with the ANTARES telescope”
Brazilian Journal of Physics 44 no.5, pp.415-608, #0296 (2014) [ISBN:978-85-89064-29-3]
[arXiv:1312.4308]

3. **RICAP-13** | Rome (Italy), 22–24 May 2013
Talk: “Transient Point Source Analyses in the ANTARES Neutrino Telescope”
Nuclear Instruments and Methods in Physics Research Section A Vol. 742, pp. 195–198 (2014)
[doi:10.1016/j.nima.2013.11.096] [arXiv:1311.7596]
2. **ISAPP Paris-2012** | Paris (France), 18–22 September 2012
Poster: “Using gamma-flares for cosmic neutrino analysis in ANTARES”
(Contribution #27 of Posters of the ISAPP Paris-2012)
1. **VLVnT11** | Erlangen (Germany), 12–14 October 2011
Talk: “Search for neutrino emission in gamma-ray flaring blazars with the ANTARES telescope”
Nuclear Instruments and Methods in Physics Research Section A Vol. 725, pp. 60–63 (2013)
[doi:10.1016/j.nima.2012.11.163] [arXiv:1204.1447]

Collaboration Meeting Attendances & Contributions

45. **Town Hall 2022** (KM3NeT) | Catania (Italy), 20–22 September 2022
44. **F2F-Astro Valencia 2022** (KM3NeT) | Valencia (Spain), 31 August – 2 September 2022
43. **Athens 2022** (ANTARES & KM3NeT) | Athens (Greece), 16–20 May 2022
42. **F2F-Astro Bologna 2022** (KM3NeT) | Bologna (Italy), 12–14 April 2022
41. **CM February 2022** (ANTARES & KM3NeT) | *on-line*, 14–18 February 2022
40. **CM November 2021** (ANTARES & KM3NeT) | *on-line*, 15–19 November 2021
39. **CM June 2021** (ANTARES & KM3NeT) | *on-line*, 7–18 June 2021
Talk: “ANTARES Calibration WG”
38. **CM February 2021** (ANTARES & KM3NeT) | *on-line*, 8–19 February 2021
Talk: “ANTARES Calibration WG”
37. **CM October 2020** (ANTARES & KM3NeT) | *on-line*, 5–16 October 2020
Talk: “ANTARES Calibration WG”
36. **CM June 2020** (ANTARES & KM3NeT) | *on-line*, 2–12 June 2020
Talk: “Calibration Custodian report”
35. **Bootcamp 2019** (KM3NeT) | Erlangen (Germany), 23–25 October 2019
Talk: “Calibrating KM3NeT”
34. **Warsaw 2019** (ANTARES & KM3NeT) | Warsaw (Poland), 7–11 October 2019
Talk: “Calibration Custodian report”
33. **Granada 2018** (ANTARES & KM3NeT) | Granada (Spain), 7–11 May 2018
Talk: “Last news on muon time calibration”
32. **Rabat 2018** (ANTARES & KM3NeT) | Rabat (Morocco), 5–9 February 2018
Talk: “Inter-DOM time calibration with atmospheric muons”
31. **Bootcamp 2017** (KM3NeT) | Valencia (Spain), 14–17 November 2017
30. **MANTS 2017** (MANTS Workshop) | Marseille (France), 7–8 October 2017
29. **Marseille 2017** (ANTARES & KM3NeT) | Marseille (France), 2–6 October 2017
Talk: “Update of time dependent analysis of XRB/ γ RB+Blazars”
28. **Bari 2017** (ANTARES & KM3NeT) | Bari (Italy), 12–16 June 2017
Talk: “Update of the time-dependent analyses: GRB, XRB, Blazars”

27. **Athens 2017** (ANTARES & KM3NeT) | Athens (Greece), 13–17 February 2017
Talk: “Update of the time-dependent analyses: GRB, XRB, Blazars”
26. **QA/QC Bari 2017** (KM3NeT Quality Assurance and Quality Control) | Bari (Italy), 25 January 2017
Talk: “Quality forms (filling, handling and follow up)”
25. **Strasbourg 2016** (ANTARES & KM3NeT) | Strasbourg (France), 26–30 September 2016
Talk: “ANTARES DATA/MC studies: Comparison between different water models”
24. **Noto 2016** (ANTARES & KM3NeT) | Noto (Italy), 13–17 June 2016
Talk: “Update on XRB/GRB binaries”
23. **Erlangen 2016** (ANTARES & KM3NeT) | Erlangen (Germany), 22–26 February 2016
22. **KM3-It Catania 2016** (KM3 Italy) | Catania (Italy), 26–27 January 2016
21. **CSG Athens 2015** (KM3NeT Computing and Software Group) | Athens (Greece), 3–4 December 2015
20. **Valencia 2015** (ANTARES & KM3NeT) | Valencia (Spain), 23–27 February 2015
19. **Leiden 2014** (ANTARES & KM3NeT) | Leiden (Netherlands), 19–23 May 2014
Contribution: “Update of the Fermi Blazar time dependent analysis”
18. **Vilanova 2014** (ANTARES & KM3NeT) | Vilanova i la Geltrú (Spain), 17–21 February 2014
Talk: “Update of Time-Dependent Analysis (Blazars & All-sky/All-time)”
Contribution: “X-ray binaries Time-dependent search”
17. **MANTS 2013** (MANTS Workshop) | Garching (Germany), 14–15 October 2013
16. **Würzburg 2013** (ANTARES & KM3NeT) | Würzburg (Germany), 9–13 October 2013
Talk: “Time dependent analysis of Fermi and IACT blazar flares”
Contribution: “Search of neutrino around flares of the Crab Nebula”
15. **Marseille 2013** (ANTARES) | Marseille (France), 4–7 June 2013
Talk: “Time dependent analysis of Fermi and IACT blazar flares”
14. **Oujda 2013** (ANTARES) | Oujda (Morocco), 19–22 February 2013
Talk: “Time-dependent Flare Analysis”
13. **MANTS 2012** (MANTS Workshop) | Bologna (Italy), 6–7 October 2012
12. **Bologna 2012** (ANTARES & KM3NeT) | Bologna (Italy), 1–4 & 5 October 2012
Talk: “Update of the AGN flare’s analysis”
11. **Rome 2012** (ANTARES) | Rome (Italy), 7–10 May 2012
Talk: “Analysis of the FERMI/SWIFT Blazar flares”
Talk: “Update on time calibration with optical beacons”
10. **CERN 2012** (ANTARES) | Geneva (Switzerland), 6–9 February 2012
Talk: “Study on the improvement from beta information in the Likelihood”
Talk: “Update on time calibration with optical beacons”
9. **MANTS 2011** (MANTS Workshop) | Uppsala (Sweden), 24–25 September 2011
8. **Bamberg 2011** (ANTARES) | Bamberg (Germany), 19–22 September 2011
7. **Moscow 2011** (ANTARES) | Moscow (Russia), 6–10 June 2011
Talk: “Maximum likelihood block method for denoising gamma-ray light curve”
Talk: “News on time calibration”
6. **CERN 2011** (ANTARES) | Geneva (Switzerland), 7–10 February 2011
Talk: “News on time calibration”

5. **Amsterdam 2010** (ANTARES) | Amsterdam (Netherlands), 22–27 November 2010
Talk: “News on time calibration”
4. **MANTS 2010** (MANTS Workshop) | Paris (France), 24–25 September 2010
3. **Paris 2010** (ANTARES) | Paris (France), 20–24 September 2010
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