Agustín Sánchez Losa

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Curriculum Vitæ

Current Professional Situation

position "Excellent Researcher with International Experience" **CIDEGENT**
institute Institut de Física Corpuscular (IFIC)
group ✦VEGA – Valencia Experimental Group of Astroparticles

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 **MSc 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 physiscs 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 goverment 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.

Awards & Certifications

- **The Giorgos Androulakis Prize** (2024).
- **The Global Neutrino Network Dissertation Prize** (2016).
- **R3** certificate emitted by AEI (*ref. CR32023-041659*).
- **Internal Auditor (ISO-9001:2015)** certificate emitted by TÜV HELLAS (*ref. IQ-IA12220*).
- **Fundamentals of Accelerated Computing with CUDA C/C++** certificate emitted by NVIDIA.

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 centres around **Experimental Astroparticle Physics** with emphasis on **multi-messenger observations**. In this approach, using the combined detection of different cosmic messengers we gain insights into their common origin. I have also made important contributions to the **design, construction, operation and calibration** of neutrino telescopes.

Detection of **cosmic neutrino** sources would yield key information to understand the mechanisms that originate cosmic rays. The significance that scarce neutrino statistics offer can be notably boosted when another messenger counterpart is foreseen. This is even more relevant when the neutrino emission is expected only during a particular period, improving the source search capabilities up to a factor of 2—3.

During my PhD I searched for ANTARES neutrino correlations with X-ray and gamma-ray emissions from potential cosmic neutrino sources, such as **X-Ray Binaries** and **Active Galactic Nuclei**. For that purpose, I used data from , SWIFT and MAGIC observatories among others. I developed a Bayesian method to enhance the accuracy of the emission period characterization. My PhD thesis 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.

I continued working on these analyses after my PhD and also applied these methods to analyse ANTARES data during the IceCube neutrino flares observed in association with the blazar **TXS 0506+056**. These works have been presented in 8 contributions at international conferences and published in three scientific articles. My students —two MSc thesis, two students in IFIC Summer Schools, one JAE Intro and three on-going PhD thesis— all worked in continuing and expanding with other messengers these analyses in ANTARES and now in KM3NeT.

Angular resolution in neutrino telescopes is critical to determine neutrino excesses coming from a source, for which calibrations play a capital role. In this regard, I played **several key roles in calibration** procedures for both ANTARES and KM3NeT, with a focus on time calibration, crucial for accurate event reconstruction and angular resolution in neutrino telescopes.

From 2010 to 2015, I coordinated the ANTARES time calibration. I developed procedures to carry out these and established monitoring requirements. Since 2020 I am the **coordinator of the calibration working group** (10 persons approx.).

In KM3NeT, I have been leading different time calibrations tasks and have played a crucial role in establishing the calibration procedures for the KM3NeT Detection Units in the dark room, ensuring their smooth implementation for mass production. I have coordinated and unified calibrations across multiple integration sites. As a result of my experience, from 2018 to 2023 I have served as **Calibration Custodian**, a figure that coordinates calibration releases, validity and applicability for data taking and analysis. In recognition of my work, the KM3NeT collaboration awarded me with the **Giorgos Androulakis Prize** in 2024 for "exceptional contributions that significantly impacted the success and progress of the project".

From 2016 to 2021, I served as the **Local Quality Supervisor** at the KM3NeT integration site at INFN in Bari. My role was to ensure the necessary quality requirements for the feasibility of KM3NeT. I also actively participated in prototyping and assembling the crucial Base Modules of the detector, and trained other integration sites on this. My contributions helped establish procedures for efficient mass production of this component.

I have wide experience in ANTARES and KM3NeT detector operation, such as **run coordinator**, and have participated in various sea operations. I have done numerous quality studies, including data and database integrity, made software contributions to both collaborations, and held internal editorial board positions. I provided training in calibration and cosmic neutrino analysis techniques and did the internal review of multiple analyses in both collaborations. I have also been a reviewer for the **Swiss National Science Foundation**.

I participate frequently in outreach activities, so far 9 open days and multiple school visits and talks to show my research. I have been part of the organising committee for the VLVnT 2021, the CNID Workshop 2024 and multiple ANTARES-KM3NeT collaboration meetings and dedicated workshops. I have been convener of the ANTARES session in the 17th Marcel Grossmann Meeting.

I did long stays in relevant institutes of ANTARES and KM3NeT collaborations: Nikhef (Netherlands); CPPM (France); INFN – Sezione di Bari (Italy) where I accumulated 5 years of postdoctoral experience; IFIC (Valencia) where I did my MSc and PhD and since 2021 I work as **Distinguished Researcher with a CIDEGENT excellence grant**, with the **R3 certificate** obtained in 2023.

Coordination & Supervision

- **Coordination roles:**
  - ANTARES Calibration Working Group coordinator, **2020 – present**.
  - KM3NeT Calibration Custodian, **2018 – 2023**.
  - KM3NeT Local Quality Supervisor INFN – Sezione di Bari, **2016 – 2021**.
  - ANTARES Time Calibration coordinator, **2010 – 2015**.

- **Organization of events & conferences:**
  - Conveener of the "ANTARES – 15 years of multi-messenger astronomy in the sea" session in the Seventeenth Marcel Grossmann Meeting, Pescara (Italy), 7–12 July **2024**.
  - Local Organizing Committee:
    - 1st CNID (CPAN Network on Instrumentation and Detectors), Valencia (Spain), 8–10 May **2024**.
    - KM3NeT Face-2-Face Astro WG Meeting, Granada (Spain), 16–19 April **2024**.
    - 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**.
    - KM3NeT Quality Assurance and Quality Control Meeting, Bari (Italy), 25 January **2017**.
    - ANTARES-KM3NeT Collaboration Meeting, Valencia (Spain), 23–27 February **2015**.

- **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**.
- **MSc 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**.
- **Other:**
  - JAE Intro:
    - *"Técnicas de Machine Learning aplicadas a la selección de neutrinos de alta energía en KM3NeT para la detección de fuentes cósmicas."* (ref. JAEINT22_EX_0880), Jorge Jiménez García (ref. JAEINT_22_00711), **2023**.
  - "Research stages" for non-experimental MSc in Advanced Physics in University of Valencia:
    - *"Exploring Data Analysis with Neutrino Telescopes."*, Sergio Portillo Pous, University of Valencia, **2023 – 2024**.
    - *"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**.
  - Internships:
    - James Zheng, MSc student, Université Paris Cité (Paris, France), 27/05/2024 – 26/08/2024, 3 months.
    - Alina González de Mesa, high school student, German School of Barcelona (Spain), 08–12 May 2023, 1 week.
  - IFIC Summer Student Programme 2022: 2 students, **18 – 29 July 2022**.
  - **Community Manager** and **webmaster** of the Valencia Experimental Group of Astroparticles, **2021 – present**.
  - Legacy website of ANTARES, calibration section.
  - Individual review for the Swiss National Science Foundation, **2023**. (contact Valentina Gallo)
  - Editorial board of ANTARES & KM3NeT papers.
  - Reviewer of ANTARES & KM3NeT analyses.
  - **12 ANTARES shifts** of one week each performed, **2011 – 2021**.
  - **6 KM3NeT shifts + 2 on-line shifts** of one week each performed, **2016 – 2023**.
  - **6 weeks** of **KM3NeT run coordinator**, **2016**.

Research Projects

- *"Multimessenger astronomy in the KM3NeT observatory: gravitational waves, gamma rays and cosmic neutrinos"*, 408,735.34 €, Plan GenT-Modalidad 1, ref. CIDEGENT/2020/049, regional funding, Comunitat Valenciana (Spain), 2021 – 2025. **Principal Investigator**.

- *"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.
- *"Advanced Acquisition and Synchronization for Astrophysics"*, 300,000.00 €, "Planes Complementarios I+D+I", ref. ASFAE/2022/023, regional funding, Comunitat Valenciana (Spain), 2022 – 2025. Scientific team member.
- *"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.
- *"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.
- *"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**, **Expociencia 2023**, **Expociencia 2024**.
  - 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:
  - *IES Número 26*, Valencia (Spain), 15 December **2023**.
  - *Colegio Nuestra Señora de Fátima*, Valencia (Spain), 5 April **2023**.

Stages in Laboratories

1. **IFIC** (*Institut de Física Corpuscular*), Valencia (Spain) ..... (9 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 MSc and PhD. Contact people: J.J. Hernández-Rey / J.D. Zornoza / J. Zúñiga.

   01/04/2021 – present *(3 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 caried 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 programing 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 Artifical Inteligence 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 observationscurso 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++14Curso 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/jupiter) • **Julia**
Bash / **Shell Scripting** • **Perl** • **CERN–ROOT** • **Mathematica** • **SQL**
GIT / **SVN** • **docker** / **Singularity** • **HTML** / **HTML5** / **CSS** / **JS** • **TEX** / **LATEX**

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	*Conversationally fluent*
Italian	Professional proficiency	*Conversationally fluent*
Spanish	Native proficiency	

Conference contributions & Seminars

(†) 22. **17th Marcel Grossman Meeting** | Pescara (Italy), 7–12 July 2024

Conveener: "ANTARES – 15 years of multi-messenger astronomy in the sea"
(Invited)

21. **AstroHEP-PPCC24** | Zaragoza (Spain), 5–7 June 2024

(†) 20. **1st CNID Workshop** | Valencia (Spain), 8–10 May 2024

Local Organizing Committee

19. **Instituto de Astrofísica de Andalucía Seminars** | Granada (Spain), 15 April 2024

Seminar: "Astronomy with Neutrino Telescopes"
(Invited)

18. **50th Winter Meeting & 15th CPAN days** | Santander (Spain), 2–6 October 2023

Talk: "Neutrino Astronomy news from the Mediterranean Sea "

17. **ICRC 2023** | Nagoya (Japan), 26 July – 3 August 2023

Poster: "KM3NeT Time calibration with Nanobeacons"
Proceedings of Science (ICRC2023) 1062 [doi:10.22323/1.444.1062]

16. **COST QGMM Workshop 2022** | Naples (Italy), 11–12 July 2022

Talk: "Multi-messenger Astronomy with High-Energy Neutrinos"
(Invited)

15. **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]

14. **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]

(†) 13. **VLVnT 2021** | *on-line*, 18–21 May 2021

Local Organizing Committee

12. **TEXAS 2019** | Portsmouth (United Kingdom), 15–20 December 2019

Talk: "Status and Prospects of Mediterranean Neutrino Telescopes: KM3NeT & ANTARES"

11. **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]

10. **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]

9. **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]

8. **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]

7. **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)

6. **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)

5. **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]

4. **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]

3. **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)

2. **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]

1. **RNO8** | Alicante (Spain), 18–22 September 2006

   Poster: "Reducción focal en microestructuras de perfil cónico"
   Libro de Actas, Dep. Legal: B-42325-2006, VP-65

(†): *Conveener or Local Organizing Committee.*

Collaboration Meetings & Contributions

54. **Texel 2024** (ANTARES & KM3NeT) | Texel (Netherlands), 10–14 June 2024

(†) 53. **F2F-Astro Granada 2024** (KM3NeT) | Granada (Spain), 16–19 April 2024
Local Organizing Committee

52. **Bologna 2024** (ANTARES & KM3NeT) | Bologna (Italy), 12–16 February 2024

51. **F2F-Astro Naples 2023** (KM3NeT) | Naples (Italy), 19–21 December 2023

50. **ANTARES Celebration** | Paris (France), 18 October 2023

49. **Paris 2023** (ANTARES & KM3NeT) | Paris (France), 16–20 October 2023

48. **Salerno 2023** (ANTARES & KM3NeT) | Fisciano (Italy), 5–9 June 2023

47. **F2F-Astro OHP 2023** (KM3NeT) | Saint-Michel-l'Observatoire (France), 31 January – 2 February 2023
Talk: "KM3NeT Calibration WG"

46. **Rome 2022** (ANTARES & KM3NeT) | Rome (Italy), 24–28 October 2022

45. **Town Hall 2022** (KM3NeT) | Catania (Italy), 20–22 September 2022

(†) 44. **F2F-Astro Valencia 2022** (KM3NeT) | Valencia (Spain), 31 August – 2 September 2022
Local Organizing Committee

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/γRB+Blazars"

(†) 28. **Bari 2017** (ANTARES & KM3NeT) | Bari (Italy), 12–16 June 2017
Local Organizing Committee
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
Local Organizing Committee
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
    Local Organizing Committee

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
2. **2nd MultiDark Consolider Workshop** (Multidark) | Santander (Spain), 28–30 June 2010
1. **Gandía 2009** (ANTARES) | Gandía (Spain), 23–27 November 2009

(†): *Conveener or Local Organizing Committee.*

Publications

Publications on International Journals

116. A. Albert et al. (ANTARES Coll.)
"Searches for Neutrinos in the Direction of Radio-bright Blazars with the ANTARES Telescope"
The Astrophysical Journal Vol. 964, p. 3 **(2024)** [doi:10.3847/1538-4357/ad1f5b] [arXiv:2309.06874]

115. S. Aiello et al. (KM3NeT Coll.)
"Searches for neutrino counterparts of gravitational waves from the LIGO/Virgo third observing run with KM3NeT"
Journal of Cosmology and Astroparticle Physics Vol. 04, p. 026 **(2024)**
[doi:10.1088/1475-7516/2024/04/026] [arXiv:2311.03804]

114. T. Unbehaun et al. (CTA Cons. and KM3NeT Coll.)
"Prospects for combined analyses of hadronic emission from γ-ray sources in the Milky Way with CTA and KM3NeT"
The European Physical Journal C Vol. 84:112 **(2024)** [doi:10.1140/epjc/s10052-023-12279-z]
[arXiv:2309.03007]

113. A. Albert et al. (ANTARES Coll.)
"Limits on the nuclearite flux using the ANTARES neutrino telescope"
Journal of Cosmology and Astroparticle Physics Vol. 01, p. 012 **(2023)**
[doi:10.1088/1475-7516/2023/01/012] [arXiv:2208.11689]

112. S. Aiello et al. (KM3NeT Coll.)
"Embedded software of the KM3NeT central logic board"
Computer Physics Communications Vol.296:109036 **(2023)** [doi:10.1016/j.cpc.2023.109036]
[arXiv:2308.01032]

111. A. Albert et al. (ANTARES Coll.)
"Studying bioluminescence flashes with the ANTARES deep-sea neutrino telescope"
Limnology and Oceanography Methods Vol. 21, pp. 734-760 **(2023)** [doi:10.1002/lom3.10578]
[arXiv:2107.08063]

(†) 110. Diego Real, Agustín Sánchez Losa, Antonio Díaz, Francisco Salesa Greus and David Calvo
"The Neutrino Mediterranean Observatory Laser Beacon: Design and Qualification"
Applied Sciences Vol. 13(17), p. 9935 **(2023)** [doi:10.3390/app13179935]

109. A. Albert et al. (ANTARES Coll.)
"Review of the online analyses of multi-messenger alerts and electromagnetic transient events with the ANTARES neutrino telescope"
Journal of Cosmology and Astroparticle Physics Vol. 08, p. 072 **(2023)**
[doi:10.1088/1475-7516/2023/08/072] [arXiv:2211.07551]

(†) 108. Diego Real, David Calvo, Antonio Díaz, Sergio Alves Garre, Víctor Carretero, Agustín Sánchez Losa and Francisco Salesa Greus
"An Ultra-Narrow Time Optical Pulse Emitter Based on a Laser: UNTOPEL"
IEEE Transactions on Nuclear Science Vol. 70(10), pp. 2364-2372 **(2023)**
[doi:10.1109/TNS.2023.3307448]

107. A. Albert et al. (ANTARES Coll.)
"Hint for a TeV neutrino emission from the Galactic Ridge with ANTARES"
Physics Letters B Vol. 841, 137951 **(2023)** [doi:10.1016/j.physletb.2023.137951] [arXiv:2212.11876]

106. A. Albert et al. (ANTARES Coll.)
"Search for neutrino counterparts to the gravitational wave sources from LIGO/Virgo O3 run with the ANTARES detector"
Journal of Cosmology and Astroparticle Physics Vol. 04, p. 004 **(2023)**
[doi:10.1088/1475-7516/2023/04/004] [arXiv:2302.07723]

105. S. Aiello et al. (KM3NeT Coll.)
"Probing invisible neutrino decay with KM3NeT-ORCA"
Journal of High Energy Physics Vol. 04, n. 090 **(2023)** [doi:10.1007/JHEP04(2023)090]
[arXiv:2302.02717]

104. H. A. Ayala Solares et al. (AMON Coll., ANTARES Coll. and HAWC Coll.)
"Search for Gamma-Ray and Neutrino Coincidences Using HAWC and ANTARES Data"
The Astrophysical Journal Vol. 944, p. 166 **(2023)** [doi:10.3847/1538-4357/acafdd]
[arXiv:2209.13462]

103. S. Aiello et al. (KM3NeT Coll.)
"First observation of the cosmic ray shadow of the Moon and the Sun with KM3NeT/ORCA"
The European Physical Journal C Vol. 83:344 **(2023)** [doi:10.1140/epjc/s10052-023-11401-5]
[arXiv:2211.08977]

102. S. Aiello et al. (KM3NeT Coll.)
"KM3NeT Broadcast Optical Data Transport System"
Journal of Instrumentation Vol. 18, T02001 **(2022)** [doi:10.1088/1748-0221/18/02/T02001]
[arXiv:2210.13328]

(†) 101. Diego Real, David Calvo, Antonio Díaz, Francisco Salesa Greus and Agustín Sánchez Losa
"A Narrow Optical Pulse Emitter Based on LED: NOPELED"
Sensors Vol. 22(19), p. 7683 **(2022)** [doi:10.3390/s22197683]

100. A. Albert et al. (ANTARES Coll., IceCube Coll., Pierre Auger Coll. and Telescope Array Coll.)
"Search for Spatial Correlations of Neutrinos with Ultra-high-energy Cosmic Rays"
The Astrophysical Journal Vol. 934, p. 164 **(2022)** [doi:10.3847/1538-4357/ac6def]
[arXiv:2201.07313]

99. A. Albert et al. (ANTARES Coll.)
"Search for non-standard neutrino interactions with 10 years of ANTARES data"
Journal of High Energy Physics Vol. 07, n. 048 **(2022)** [doi:10.1007/JHEP07(2022)048]
[arXiv:2112.14517]

98. A. Albert et al. (ANTARES Coll.)
"Search for secluded dark matter towards the Galactic Centre with the ANTARES neutrino telescope"
Journal of Cosmology and Astroparticle Physics Vol. 06, p. 028 **(2022)**
[doi:10.1088/1475-7516/2022/06/028] [arXiv:2203.06029]

97. A. Albert et al. (ANTARES Coll.)
"Search for solar atmospheric neutrinos with the ANTARES neutrino telescope"
Journal of Cosmology and Astroparticle Physics Vol. 06, p. 018 **(2022)**
[doi:10.1088/1475-7516/2022/06/018] [arXiv:2201.11642]

96. S. Aiello et al. (KM3NeT Coll.)
"The KM3NeT multi-PMT optical module"
Journal of Instrumentation Vol. 17, P07038 **(2022)** [doi:10.1088/1748-0221/17/07/P07038]
[arXiv:2203.10048]

95. S. Aiello et al. (KM3NeT Coll.)
"Nanobeacon: A time calibration device for the KM3NeT neutrino telescope"
Nuclear Instruments and Methods in Physics Research Section A Vol. 1040, 167132 **(2022)** [doi:10.1016/j.nima.2022.167132] [arXiv:2111.00223]

94. A. Albert et al. (ANTARES Coll.)
"Search for magnetic monopoles with ten years of the ANTARES neutrino telescope"
Journal of High Energy Astrophysics Vol. 34, pp. 1–8 **(2022)** [doi:10.1016/j.jheap.2022.03.001] [arXiv:2202.13786]

93. S. Aiello et al. (KM3NeT Coll.)
"Implementation and first results of the KM3NeT real-time core-collapse supernova neutrino search"
The European Physical Journal C Vol. 82:317 **(2022)** [doi:10.1140/epjc/s10052-022-10137-y] [arXiv:2109.05890]

92. S. Aiello et al. (KM3NeT Coll.)
"Combined sensitivity of JUNO and KM3NeT/ORCA to the neutrino mass ordering"
Journal of High Energy Physics Vol. 03, n. 055 **(2022)** [doi:10.1007/JHEP03(2022)055] [arXiv:2108.06293]

(†) 91. Juan José Hernández-Rey, Miguel Ardid, Manuel Bou Cabo, David Calvo, Antonio F. Díaz, Sara Rebecca Gozzini, Juan A. Martínez-Mora, Sergio Navas, Diego Real, Francisco Salesa Greus, Agustín Sánchez Losa, Juan de Dios Zornoza and Juan Zúñiga
"Science with Neutrino Telescopes in Spain"
Universe Vol. 8(2), p. 89 **(2022)** [doi:10.3390/universe8020089]

90. S. Aiello et al. (KM3NeT Coll.)
"Determining the neutrino mass ordering and oscillation parameters with KM3NeT/ORCA"
The European Physical Journal C Vol. 82:26 **(2022)** [doi:10.1140/epjc/s10052-021-09893-0] [arXiv:2103.09885]

(†) 89. Francisco Salesa Greus and Agustín Sánchez Losa
"Multimessenger Astronomy with Neutrinos"
Universe Vol. 7(11), p. 397 **(2021)** [doi:10.3390/universe7110397] [arXiv:2110.11817]

88. A. Albert et al. (ANTARES Coll.)
"Search for Neutrinos from the Tidal Disruption Events AT2019dsg and AT2019fdr with the ANTARES Telescope"
The Astrophysical Journal Vol. 920, p. 50 **(2021)** [doi:10.3847/1538-4357/ac16d6] [arXiv:2103.15526]

87. S. Aiello et al. (KM3NeT Coll.)
"Sensitivity to light sterile neutrino mixing parameters with KM3NeT/ORCA"
Journal of High Energy Physics Vol. 10, n. 180 **(2021)** [doi:10.1007/JHEP10(2021)180] [arXiv:2107.00344]

86. A. Albert et al. (ANTARES Coll.)
"Measurement of the atmospheric ν_e and ν_μ energy spectra with the ANTARES neutrino telescope"
Physics Letters B Vol. 816, 136228 **(2021)** [doi:10.1016/j.physletb.2021.136228] [arXiv:2101.12170]

85. S. Aiello et al. (KM3NeT Coll.)
"The KM3NeT potential for the next core-collapse supernova observation with neutrinos"
The European Physical Journal C Vol. 81:445 **(2021)** [doi:10.1140/epjc/s10052-021-09187-5] [arXiv:2102.05977]

84. A. Albert et al. (ANTARES Coll.)
"ANTARES Search for Point Sources of Neutrinos Using Astrophysical Catalogs: A Likelihood Analysis"
The Astrophysical Journal Vol. 911, p. 48 **(2021)** [doi:10.3847/1538-4357/abe53c] [arXiv:2012.15082]

83. A. Albert et al. (ANTARES Coll.)
"ANTARES upper limits on the multi-TeV neutrino emission from the GRBs detected by IACTs"
Journal of Cosmology and Astroparticle Physics Vol. 03, p. 092 **(2021)**
[doi:10.1088/1475-7516/2021/03/092] [arXiv:2011.11411]

82. A. Albert et al. (ANTARES Coll.)
"Constraining the contribution of Gamma-Ray Bursts to the high-energy diffuse neutrino flux with 10 yr of ANTARES data"
Monthly Notices of the Royal Astronomical Society Vol. 500, pp. 5614–5628 **(2021)**
[doi:10.1093/mnras/staa3503] [arXiv:2008.02127]

81. A. Albert et al. (ANTARES Coll.)
"Monte Carlo simulations for the ANTARES underwater neutrino telescope"
Journal of Cosmology and Astroparticle Physics Vol. 01, p. 064 **(2021)**
[doi:10.1088/1475-7516/2021/01/064] [arXiv:2010.06621]

80. S. Aiello et al. (KM3NeT Coll.)
"Architecture and performance of the KM3NeT front-end firmware"
Journal of Astronomical Telescopes, Instruments and Systems Vol. 7(1):016001 **(2021)**
[doi:10.1117/1.JATIS.7.1.016001]

79. A. Albert et al. (ANTARES Coll.)
"Observation of the cosmic ray shadow of the Sun with the ANTARES neutrino telescope"
Physical Review D Vol. 102, 122007 **(2020)** [doi:10.1103/PhysRevD.102.122007] [arXiv:2007.00931]

78. A. Albert et al. (ANTARES Coll. and IceCube Coll.)
"Combined search for neutrinos from dark matter self-annihilation in the Galactic Center with ANTARES and IceCube"
Physical Review D Vol. 102, 082002 **(2020)** [doi:10.1103/PhysRevD.102.082002] [arXiv:2003.06614]

77. S. Aiello et al. (KM3NeT Coll.)
"Deep-sea deployment of the KM3NeT neutrino telescope detection units by self-unrolling"
Journal of Instrumentation Vol. 15, P11027 **(2020)** [doi:10.1088/1748-0221/15/11/P11027]
[arXiv:2007.16090]

76. S. Aiello et al. (KM3NeT Coll.)
"Event reconstruction for KM3NeT/ORCA using convolutional neural networks"
Journal of Instrumentation Vol. 15, P10005 **(2020)** [doi:10.1088/1748-0221/15/10/P10005]
[arXiv:2004.08254]

75. S. Aiello et al. (KM3NeT Coll.)
"gSeaGen: The KM3NeT GENIE-based code for neutrino telescopes"
Computer Physics Communications Vol.256:107477 **(2020)** [doi:10.1016/j.cpc.2020.107477]
[arXiv:2003.14040]

74. A. Albert et al. (ANTARES Coll.)
"Search for dark matter towards the Galactic Centre with 11 years of ANTARES data"
Physics Letters B Vol. 805, 135439 **(2020)** [doi:10.1016/j.physletb.2020.135439] [arXiv:1912.05296]

73. S. Aiello et al. (KM3NeT Coll.)
"The Control Unit of the KM3NeT Data Acquisition System"
Computer Physics Communications Vol.256:107433 **(2020)** [doi:10.1016/j.cpc.2020.107433]
[arXiv:1910.00112]

72. A. Albert et al. (ANTARES Coll.)
"Search for neutrino counterparts of gravitational-wave events detected by LIGO and Virgo during run O2 with the ANTARES telescope"
The European Physical Journal C Vol. 80:487 **(2020)** [doi:10.1140/epjc/s10052-020-8015-6]
[arXiv:2003.04022]

71. A. Albert et al. (ANTARES Coll. and IceCube Coll.)
"ANTARES and IceCube Combined Search for Neutrino Point-like and Extended Sources in the Southern Sky"
The Astrophysical Journal Vol. 892, p. 92 **(2020)** [doi:10.3847/1538-4357/ab7afb] [arXiv:2001.04412]

70. M. Ageron et al. (KM3NeT Coll.)
"Dependence of atmospheric muon flux on seawater depth measured with the first KM3NeT detection units"
The European Physical Journal C Vol. 80:99 **(2020)** [doi:10.1140/epjc/s10052-020-7629-z]
[arXiv:1906.02704]

69. A. Albert et al. (ANTARES Coll.)
"Model-independent search for neutrino sources with the ANTARES neutrino telescope"
Astroparticle Physics Vol. 114, pp. 35–47 **(2020)** [doi:10.1016/j.astropartphys.2019.06.003]
[arXiv:1703.04351]

68. S. Aiello et al. (KM3NeT Coll.)
"KM3NeT front-end and readout electronics system: hardware, firmware, and software"
Journal of Astronomical Telescopes, Instruments and Systems Vol. 5(4):046001 **(2019)**
[doi:10.1117/1.JATIS.5.4.046001] [arXiv:1907.06453]

67. S. Aiello et al. (KM3NeT Coll.)
"Sensitivity of the KM3NeT/ARCA neutrino telescope to point-like neutrino sources"
Astroparticle Physics Vol. 111, pp. 100–110 **(2019)** [doi:10.1016/j.astropartphys.2019.04.002]
[arXiv:1810.08499]

66. H. A. Ayala Solares et al. (including ANTARES Coll.)
"A Search for Cosmic Neutrino and Gamma-Ray Emitting Transients in 7.3 yr of ANTARES and Fermi LAT Data"
The Astrophysical Journal Vol. 886, p. 98 **(2019)** [doi:10.3847/1538-4357/ab4a74] [arXiv:1904.06420]

65. A. Albert et al. (ANTARES Coll.)
"ANTARES Neutrino Search for Time and Space Correlations with IceCube High-energy Neutrino Events"
The Astrophysical Journal Vol. 879, p. 108 **(2019)** [doi:10.3847/1538-4357/ab253c]
[arXiv:1902.09462]

64. A. Albert et al. (ANTARES Coll.)
"Measuring the atmospheric neutrino oscillation parameters and constraining the 3+1 neutrino model with ten years of ANTARES data"
Journal of High Energy Physics Vol. 06, n. 113 **(2019)** [doi:10.1007/JHEP06(2019)113]
[arXiv:1812.08650]

63. A. Albert et al. (ANTARES Coll., IceCube Coll., LIGO Scientific Coll. and Virgo Coll.)
"Search for Multimessenger Sources of Gravitational Waves and High-energy Neutrinos with Advanced LIGO during Its First Observing Run, ANTARES, and IceCube"
The Astrophysical Journal Vol. 870, p. 134 **(2019)** [doi:10.3847/1538-4357/aaf21d]
[arXiv:1810.10693]

62. A. Albert et al. (ANTARES Coll.)
"The cosmic ray shadow of the Moon observed with the ANTARES neutrino telescope"
The European Physical Journal C Vol. 78:1006 **(2018)** [doi:10.1140/epjc/s10052-018-6451-3]
[arXiv:1807.11815]

61. A. Albert et al. (ANTARES Coll. and IceCube Coll.)
"Joint Constraints on Galactic Diffuse Neutrino Emission from the ANTARES and IceCube Neutrino Telescopes"
The Astrophysical Journal Letters Vol. 868 L20 **(2018)** [doi:10.3847/2041-8213/aaeecf]
[arXiv:1808.03531]

60. A. Albert et al. (ANTARES Coll.)
"The search for high-energy neutrinos coincident with fast radio bursts with the ANTARES neutrino telescope"
Monthly Notices of the Royal Astronomical Society Vol. 482, pp. 184–193 **(2018)**
[doi:10.1093/mnras/sty2621] [arXiv:1807.04045]

59. A. Albert et al. (ANTARES Coll.)
"Long-term monitoring of the ANTARES optical module efficiencies using 40K decays in sea water"
The European Physical Journal C Vol. 78:669 **(2018)** [doi:10.1140/epjc/s10052-018-6132-2]
[arXiv:1805.08675]

(†) 58. A. Albert et al. (ANTARES Coll.)
"The Search for Neutrinos from TXS 0506+056 with the ANTARES Telescope"
The Astrophysical Journal Letters Vol. 863 L30, 5 pp. **(2018)** [doi:10.3847/2041-8213/aad8c0]
[arXiv:1807.04309]

57. S. Aiello et al. (KM3NeT Coll.)
"Characterisation of the Hamamatsu photomultipliers for the KM3NeT Neutrino Telescope"
Journal of Instrumentation Vol. 13, P05035 **(2018)** [doi:10.1088/1748-0221/13/05/P05035]

56. A. Albert et al. (ANTARES Coll.)
"All-flavor Search for a Diffuse Flux of Cosmic Neutrinos with Nine Years of ANTARES Data"
The Astrophysical Journal Letters Vol. 853 L7, 5 pp. **(2018)** [doi:10.3847/2041-8213/aaa4f6]
[arXiv:1711.07212]

55. A. Albert et al. (ANTARES Coll.)
"All-sky search for high-energy neutrinos from gravitational wave event GW170104 with the Antares neutrino telescope"
The European Physical Journal C Vol. 77:911 **(2017)** [doi:10.1140/epjc/s10052-017-5451-z]
[arXiv:1710.03020]

54. S. Bhandari et al. (including ANTARES Coll.)
"The SUrvey for Pulsars and Extragalactic Radio Bursts – II. New FRB discoveries and their follow-up"
Monthly Notices of the Royal Astronomical Society Vol. 475, pp. 1427–1446 **(2018)**
[doi:10.1093/mnras/stx3074] [arXiv:1711.08110]

53. A. Albert et al. (including ANTARES Coll.)
"Search for High-energy Neutrinos from Binary Neutron Star Merger GW170817 with ANTARES, IceCube, and the Pierre Auger Observatory"
The Astrophysical Journal Letters Vol. 850 L35, 18 pp. **(2017)** [doi:10.3847/2041-8213/aa9aed] [arXiv:1710.05839]

52. B. P. Abbott et al. (including ANTARES Coll.)
"Multi-messenger Observations of a Binary Neutron Star Merger"
The Astrophysical Journal Letters Vol. 848 L12, 59 pp. **(2017)** [doi:10.3847/2041-8213/aa91c9] [arXiv:1710.05833]

51. A. Albert et al. (ANTARES Coll.)
"An Algorithm for the Reconstruction of Neutrino-induced Showers in the ANTARES Neutrino Telescope"
The Astronomical Journal Vol. 154, 275 pp. **(2017)** [doi:10.3847/1538-3881/aa9709] [arXiv:1708.03649]

50. A. Albert et al. (ANTARES Coll.)
"First all-flavor neutrino pointlike source search with the ANTARES neutrino telescope"
Physical Review D Vol. 96, 082001 **(2017)** [doi:10.1103/PhysRevD.96.082001] [arXiv:1706.01857]

49. A. Albert et al. (ANTARES Coll.)
"New Constraints on all flavour Galactic diffuse neutrino emission with the ANTARES telescope"
Physical Review D Vol. 96, 062001 **(2017)** [doi:10.1103/PhysRevD.96.062001] [arXiv:1705.00497]

48. A. Albert et al. (ANTARES Coll.)
"Search for relativistic magnetic monopoles with five years of the ANTARES detector data"
Journal of High Energy Physics Vol. 07, n. 054 **(2017)** [doi:10.1007/JHEP07(2017)054] [arXiv:1703.00424]

47. A. Albert et al. (ANTARES Coll.)
"An algorithm for the reconstruction of high-energy neutrino-induced particle showers and its application to the ANTARES neutrino telescope"
The European Physical Journal C Vol. 77:419 **(2017)** [doi:10.1140/epjc/s10052-017-4979-2] [arXiv:1703.02432]

46. A. Albert et al. (Antares Coll., IceCube Coll., LIGO Scientific Coll. and Virgo Coll.)
"Search for High-energy Neutrinos from Gravitational Wave Event GW151226 and Candidate LVT151012 with ANTARES and IceCube"
Physical Review D Vol. 96, 022005 **(2017)** [doi:10.1103/PhysRevD.96.022005] [arXiv:1703.06298]

45. E. Petroff et al. (HESS Coll. and ANTARES Coll.)
"A polarized fast radio burst at low Galactic latitude"
Monthly Notices of the Royal Astronomical Society Vol. 469, pp. 4465–4482 **(2017)** [doi:10.1093/mnras/stx1098] [arXiv:1705.02911]

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