



Agustín Sánchez Losa

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Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

My research activity is focused on **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. 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**.

During my PhD and afterwards, I analyzed 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 from the blazar **TXS 0506+056**, where I constrained the neutrino fluence. These analyses have been presented in 8 contributions in international conferences and in three publications.

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 is crucial to achieve the required angular resolution in neutrino telescopes for point source analyses. From 2010 to 2015 I coordinated the ANTARES **time calibration** system and performed its calibrations by means of Optical Beacons. During my MSci, I developed the procedure to carry out these calibrations and established its monitoring requirements. Since 2016, I am also producing the combination of all the calibrations for data processing and Monte Carlo production in ANTARES. I have coordinated the muon time calibrations in KM3NeT from more than one year. As a result of my experience, I have been nominated by the KM3NeT Management as the **Calibration Custodian**, an official figure that coordinates all the calibrations for data analysis and Monte Carlo production.

Moreover, for more than 3 years I am the **Local Quality Supervisor** (Internal Auditor ISO-9001 certified) in the **KM3NeT integration site** at INFN in Bari (Italy), where 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 have a wide experience in ANTARES and KM3NeT **detector operation**, as shifter and run coordinator. I participated in **sea operations** of ANTARES and studies for emplacements for KM3NeT. 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 realized long stays in relevant institutes of ANTARES and KM3NeT collaborations: **Nikhef** (Netherlands); **CPPM** (France); **IFIC** (Valencia) where I did my MSci and PhD; **INFN – Sezione di Bari** (Italy) where I am currently working.



General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

- Total publications: 101
 - Total citations: 4096
 - h-index: 29
 - Average citations/publication: 40.6
 - Average citations/year: 409.6
- (Metrics by Web of Science: <https://www.webofscience.com/wos/author/record/273757>)



Agustín Sánchez Losa

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Name: **Agustín**
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ScopusID: **15754527200**
ResearcherID: **B-6153-2019**
Contact aut. region/reg.: **Valencian Community**
Personal web page: **ific.uv.es/~agusanlo**

Current professional situation

Employing entity: Consejo Superior de Investigaciones Científicas
Type of entity: State agency
Department: Instituto de Física Corpuscular (IFIC)
Professional category: Distinguished researcher – CIDEAGENT
Educational Management (Yes/No): No
City employing entity: Valencia, Valencian Community, Spain
Email: agustin.sanchez@ific.uv.es
Start date: 01/04/2021
Type of contract: Temporary employment contract
Dedication regime: Full time
Primary (UNESCO code): 220700 - Nuclear physics
Performed tasks: Work on ANTARES and KM3NeT experiments: | Transient analyses with ANTARES & KM3NeT data: research and formation on this methods to PhD students in ANTARES & KM3NeT collaborations. | Produce calibration tables on the ANTARES DB for data and Monte Carlo processing. | KM3NeT Calibration Custodian, responsible of coordinate the many time and position calibrations to provide for data analysis and MC production. | Carry out several ANTARES shifts and outreach activities.
Identify key words: Telescope; Universe; Physics - High energies - Experiment
Field of management activity: Public Research Body

Previous positions and activities

	Employing entity	Professional category	Start date
1	Istituto Nazionale di Fisica Nucleare - INFN (Italia)	Postdoctoral Research Assistant (bando INFN 21730)	01/04/2020
2	Istituto Nazionale di Fisica Nucleare - INFN (Italia)	Postdoctoral Research Assistant (bando INFN 19356)	07/02/2018
3	Istituto Nazionale di Fisica Nucleare - INFN (Italia)	Postdoctoral Research Fellowship (bando INFN 16725)	15/10/2015
4	Consejo Superior de Investigaciones Científicas - CSIC (Spain)	PhD Fellowship with Contract (FPI BES-2010-033616)	01/09/2010
5	Consejo Superior de Investigaciones Científicas - CSIC (Spain)	Pre-PhD Contract (Técnico superior de investigación)	11/05/2010



- 1** **Employing entity:** Istituto Nazionale di Fisica Nucleare - INFN (Italia) **Type of entity:** Public Research Body
Department: ANTARES/KM3NeT, INFN - Sezione di Bari
City employing entity: Bari, Puglia, Italy
Professional category: Postdoctoral Research Assistant (bando INFN 21730) **Educational Management (Yes/No):** No
Email: agustin@infn.it
Start-End date: 01/04/2020 - 31/03/2021 **Duration:** 2 years
Type of contract: Temporary employment contract
Dedication regime: Full time
Performed tasks: Work on ANTARES and KM3NeT experiments: | Transient analyses with ANTARES data: research and formation on this methods to PhD students in ANTARES & KM3NeT collaborations. | Coordinator of the ANTARES Calibration Working Group. | Produce calibration tables on the ANTARES DB for data and Monte Carlo processing. | KM3NeT Calibration Custodian, responsible of coordinate the many time and position calibrations to provide for data analysis and MC production. | Dark Room calibration of ARCA/KM3NeT DU units. | KM3NeT Local Quality Supervisor of the INFN - Sezione di Bari Base Module integration site and Detector Unit integration coordination site. | Carry out several ANTARES shifts and outreach activities.
Field of management activity: Public Research Body
- 2** **Employing entity:** Istituto Nazionale di Fisica Nucleare - INFN (Italia) **Type of entity:** Public Research Body
Department: ANTARES/KM3NeT, INFN - Sezione di Bari
City employing entity: Bari, Puglia, Italy
Professional category: Postdoctoral Research Assistant (bando INFN 19356) **Educational Management (Yes/No):** No
Email: agustin@infn.it
Start-End date: 07/02/2018 - 06/02/2020 **Duration:** 2 years
Type of contract: Temporary employment contract
Dedication regime: Full time
Performed tasks: Work on ANTARES and KM3NeT experiments: | Transient analyses with ANTARES data: research and formation on this methods to PhD students in ANTARES & KM3NeT collaborations. | Produce calibration tables on the ANTARES DB for data and Monte Carlo processing. | KM3NeT Calibration Custodian, responsible of coordinate the many time and position calibrations to provide for data analysis and MC production. | KM3NeT muon time calibration responsible. | KM3NeT Local Quality Supervisor of the INFN - Sezione di Bari Base Module integration site and Detector Unit integration coordination site. | ANTARES data processing for some prompt analyses. | Carry out several ANTARES shifts and outreach activities.
Field of management activity: Public Research Body
- 3** **Employing entity:** Istituto Nazionale di Fisica Nucleare - INFN (Italia) **Type of entity:** Public Research Body
Department: ANTARES/KM3NeT, INFN - Sezione di Bari
City employing entity: Bari, Puglia, Italy
Professional category: Postdoctoral Research Fellowship (bando INFN 16725) **Educational Management (Yes/No):** No
Email: agustin@infn.it
Start-End date: 15/10/2015 - 14/10/2017 **Duration:** 2 years
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Dedication regime: Full time
Performed tasks: Work on ANTARES and KM3NeT experiments: | Transient analyses with ANTARES data: research and formation on this methods to PhD students in ANTARES & KM3NeT



collaborations. | Produce calibration tables on the ANTARES DB for data and Monte Carlo processing. | KM3NeT muon time calibration responsible. | KM3NeT Local Quality Supervisor of the INFN - Sezione di Bari Base Module integration site and Detector Unit integration coordination site. | Integration of two KM3NeT Base Modules and knowledge transfer to other integration sites. | KM3NeT run coordinator during 6 weeks plus 2 weeks of shift in the earliest KM3NeT data taking stage. | Contribution to KM3NeT software tools. | ANTARES data processing for some prompt analyses. | Carry out several ANTARES shifts and outreach activities.

Field of management activity: Public Research Body

- 4** **Employing entity:** Consejo Superior de Investigaciones Científicas - CSIC (Spain) **Type of entity:** State agency
Department: ANTARES/KM3NeT, Instituto de Física Corpuscular - IFIC (Spain)
Professional category: PhD Fellowship with Contract (FPI BES-2010-033616) **Educational Management (Yes/No):** No
Email: agustin.sanchez@ific.uv.es
Start-End date: 01/09/2010 - 31/08/2014 **Duration:** 4 years
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Dedication regime: Full time
Performed tasks: Work on ANTARES experiment and MSci and PhD theses: | Transient analyses with ANTARES data: researching and developing of techniques. | ANTARES time calibration coordinator. | ANTARES time calibration by means of Optical Beacons: automation of the procedure. | Participation in some ANTARES and MEUST operations. | ANTARES data processing for some prompt analyses. | Carry out several ANTARES shifts and outreach activities.
Field of management activity: Public Research Body
- 5** **Employing entity:** Consejo Superior de Investigaciones Científicas - CSIC (Spain) **Type of entity:** State agency
Department: ANTARES/KM3NeT, Instituto de Física Corpuscular - IFIC (Spain)
Professional category: Pre-PhD Contract (Técnico superior de investigación) **Educational Management (Yes/No):** No
Email: agustin.sanchez@ific.uv.es
Start-End date: 11/05/2010 - 31/08/2010 **Duration:** 3 months - 20 days
Type of contract: Temporary employment contract
Dedication regime: Part time
Performed tasks: Work on ANTARES experiment and start of the MSci thesis: automation of the ANTARES time calibration procedure by means of Optical Beacons.
Field of management activity: Public Research Body



Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

1 **University degree:** Máster

Name of qualification: Máster Universitario en Física Avanzada

Degree awarding entity: Universitat de València **Type of entity:** University

Date of qualification: 26/01/2011

Average mark: Excellent

2 **University degree:** Higher degree

Name of qualification: Licenciado en Física (Plan 2000)

Degree awarding entity: Universitat de València **Type of entity:** University

Date of qualification: 25/09/2009

Average mark: Pass

Doctorates

Doctorate programme: Doctorado en Física con Mención Internacional

Degree awarding entity: Universitat de València **Type of entity:** University

Date of degree: 02/10/2015

European doctorate: Yes

Thesis title: Search for High Energy Cosmic Muon Neutrinos from Variable Gamma-Ray Sources and Time Calibration of the Optical Modules of the ANTARES Telescope

Thesis director: Juan José Hernández Rey

Thesis co-director: Damien Dornic

Obtained qualification: Sobresaliente Cum Laude

Recognition of quality: Yes

Standardised degree: No

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
English	C1	C1	C1	C1	C1
Italian	C1	C1	C1	C1	C1
Spanish	C2	C2	C2	C2	C2



Scientific and technological experience

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

- 1** **Name of the project:** Telescopios de neutrinos para física fundamental y astronomía multi-mensajero (NOSTRUM) en el IFIC
Entity where project took place: Instituto de Física Corpuscular **Type of entity:** State agency
City of entity: Valencia, Valencian Community, Spain
Name principal investigator (PI, Co-PI....): Juan de Dios Zornoza Gómez; Juan José Hernández Rey
Nº of researchers: 22
Start-End date: 01/09/2022 - 31/08/2025
Total amount: 919.600 €
- 2** **Name of the project:** Red Española de Física de Ondas Gravitacionales (REDONGRA) [UNDER EVALUATION]
Entity where project took place: INSTITUT DE FISICA D'ALTES ENERGIES
City of entity: Barcelona, Catalonia, Spain
Name principal investigator (PI, Co-PI....): Mario Martínez Pérez
Nº of researchers: 15
Start-End date: 01/05/2023 - 30/04/2025
Total amount: 40.000 €
- 3** **Name of the project:** Multimessenger astronomy in the KM3NeT observatory: gravitational waves, gamma rays and cosmic neutrinos
Identify key words: Experimental results
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Instituto de Física Corpuscular **Type of entity:** State agency
City of entity: Valencia, Valencian Community, Spain
Name principal investigator (PI, Co-PI....): Agustín Sánchez Losa
Nº of researchers: 1
Funding entity or bodies:
Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
Generalitat Valenciana **Type of entity:** Conselleria d'Innovació, Universitats, Ciència i Societat Digital

Type of participation: Principal investigator
Name of the programme: Programa para el apoyo a personas investigadoras con talento - Plan GenT
Code according to the funding entity: CIDEAGENT/2020/049
Start-End date: 01/04/2021 - 31/03/2025 **Duration:** 4 years
Total amount: 408.735,34 €
Percentage as grant: 100
Dedication regime: Full time



- 4** **Name of the project:** Participación del IFIC en ANTARES Y KM3NET
Entity where project took place: Instituto de Física Corpuscular **Type of entity:** State agency
City of entity: Valencia, Valencian Community, Spain
Name principal investigator (PI, Co-PI....): Juan José Hernández Rey
Nº of researchers: 12
Funding entity or bodies: MINECO. Ministerio de Economía y Competitividad **Type of entity:** Ministerios
City funding entity: Spain
Code according to the funding entity: FPA2012-37528-C02-01
Start-End date: 01/01/2013 - 31/12/2015 **Duration:** 3 years
Participating entity/entities: Consejo Superior de Investigaciones Científicas
Total amount: 237.510 €
- 5** **Name of the project:** Participación del IFIC en los telescopios de neutrinos ANTARES y KM3NeT
Entity where project took place: Instituto de Física Corpuscular **Type of entity:** State agency
City of entity: Valencia, Valencian Community, Spain
Name principal investigator (PI, Co-PI....): Juan José Hernández Rey
Nº of researchers: 12
Funding entity or bodies: Ministerio de Ciencia e Innovación **Type of entity:** Ministerios
City funding entity: Madrid, Community of Madrid, Spain
Code according to the funding entity: FPA2009-13983-C02-01
Start-End date: 2010 - 2012 **Duration:** 2 years - 1 day
Participating entity/entities: Consejo Superior de Investigaciones Científicas
Total amount: 792.550 €

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1** Diego Real; David Calvo; Antonio Díaz; Francisco Salesa Greus; Agustín Sánchez Losa. A Narrow Optical Pulse Emitter Based on LED: NOPELED. Sensors. 22 - 19, pp. 7683. 2022.
DOI: 10.3390/s22197683
Type of production: Scientific paper
- 2** Combined sensitivity of JUNO and KM3NeT/ORCA to the neutrino mass ordering. Journal of High Energy Physics. 03 - 055, 2022.
DOI: 10.1007/JHEP03(2022)055
Type of production: Scientific paper
- 3** S. Aiello et al. (KM3NeT Coll.). Determining the neutrino mass ordering and oscillation parameters with KM3NeT/ORCA. The European Physical Journal C. 82 - 26, 2022.
DOI: 10.1140/epjc/s10052-021-09893-0



Type of production: Scientific paper

- 4** 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*. 82 - 317, 2022.
DOI: 10.1140/epjc/s10052-022-10137-y
Type of production: Scientific paper
- 5** 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*. 1040 - 167132, 2022.
DOI: 10.1016/j.nima.2022.167132
Type of production: Scientific paper
- 6** 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; Juan Zúñiga. *Science with Neutrino Telescopes in Spain*. *Universe*. 8 - 2, pp. 89. 2022.
DOI: 10.3390/universe8020089
Type of production: Scientific paper
- 7** 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*. 934 - 164, 2022.
DOI: 10.3847/1538-4357/ac6def
Type of production: Scientific paper
- 8** A. Albert et al. (ANTARES Coll.). Search for magnetic monopoles with ten years of the ANTARES neutrino telescope. *Journal of High Energy Astrophysics*. 34, pp. 1 - 8. 2022.
DOI: 10.1016/j.jheap.2022.03.001
Type of production: Scientific paper
- 9** A. Albert et al. (ANTARES Coll.). Search for non-standard neutrino interactions with 10 years of ANTARES data. *Journal of High Energy Physics*. 07 - 048, 2022.
DOI: 10.1007/JHEP07(2022)048
Type of production: Scientific paper
- 10** 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*. 06 - 028, 2022.
DOI: 10.1088/1475-7516/2022/06/028
Type of production: Scientific paper
- 11** A. Albert et al. (ANTARES Coll.). Search for solar atmospheric neutrinos with the ANTARES neutrino telescope. *Journal of Cosmology and Astroparticle Physics*. 06 - 018, 2022.
DOI: 10.1088/1475-7516/2022/06/018
Type of production: Scientific paper
- 12** S. Aiello et al. (KM3NeT Coll.). The KM3NeT multi-PMT optical module. *Journal of Instrumentation*. 17 - P07038, 2022.
DOI: 10.1088/1748-0221/17/07/P07038
Type of production: Scientific paper
- 13** A. Albert et al. (ANTARES Coll.). ANTARES Search for Point Sources of Neutrinos Using Astrophysical Catalogs: A Likelihood Analysis (ANTARES Collaboration), and. *The Astrophysical Journal*. 911 - 48, 2021.
DOI: 10.3847/1538-4357/abe53c
Type of production: Scientific paper

- 14** 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*. 03 - 092, 2021.
DOI: 10.1088/1475-7516/2021/03/092
Type of production: Scientific paper
- 15** S. Aiello et al. (KM3NeT Coll.). Architecture and performance of the KM3NeT front-end firmware. *Journal of Astronomical Telescopes, Instruments and Systems*. 7(1) - 016001, 2021.
DOI: 10.1117/1.JATIS.7.1.016001
Type of production: Scientific paper
- 16** 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*. 500, pp. 5614 - 5628. 2021.
DOI: 10.1093/mnras/staa3503
Type of production: Scientific paper
- 17** 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*. 816 - 136228, 2021.
DOI: 10.1016/j.physletb.2021.136228
Type of production: Scientific paper
- 18** A. Albert et al. (ANTARES Coll.). Monte Carlo simulations for the ANTARES underwater neutrino telescope. *Journal of Cosmology and Astroparticle Physics*. 01 - 064, 2021.
DOI: 10.1088/1475-7516/2021/01/064
Type of production: Scientific paper
- 19** Francisco Salesa Greus; Agustín Sánchez Losa. Multimessenger Astronomy with Neutrinos. *Universe*. 7 - 11, pp. 397. 2021.
DOI: 10.3390/universe7110397
Type of production: Scientific paper
- 20** Search for Neutrinos from the Tidal Disruption Events AT2019dsg and AT2019fdr with the ANTARES Telescope. *The Astrophysical Journal*. 920 - 50, 2021.
DOI: 10.3847/1538-4357/ac16d6
Type of production: Scientific paper
- 21** S. Aiello et al. (KM3NeT Coll.). Sensitivity to light sterile neutrino mixing parameters with KM3NeT/ORCA. *Journal of High Energy Physics*. 10 - 180, 2021.
DOI: 10.1007/JHEP10(2021)180
Type of production: Scientific paper
- 22** S. Aiello et al. (KM3NeT Coll.). The KM3NeT potential for the next core-collapse supernova observation with neutrinos. *The European Physical Journal C*. 81 - 445, 2021.
DOI: 10.1140/epjc/s10052-021-09187-5
Type of production: Scientific paper
- 23** 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*. 892 - 92, 2020.
DOI: 10.3847/1538-4357/ab7afb
Type of production: Scientific paper



- 24** 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.* 102 - 082002, 2020.
DOI: 10.1103/PhysRevD.102.082002
Type of production: Scientific paper
- 25** S. Aiello et al. (KM3NeT Coll.). Deep-sea deployment of the KM3NeT neutrino telescope detection units by self-unrolling. *Journal of Instrumentation.* 15 - P11027, 2020.
DOI: 10.1088/1748-0221/15/11/P11027
Type of production: Scientific paper
- 26** M. Ageron et al. (KM3NeT Coll.). Dependence of atmospheric muon flux on seawater depth measured with the first KM3NeT detection units: The KM3NeT Collaboration. *The European Physical Journal C.* 80 - 99, 2020.
DOI: 10.1140/epjc/s10052-020-7629-z
Type of production: Scientific paper
- 27** KM3NeT Coll. (S. Aiello et al.). Event reconstruction for KM3NeT/ORCA using convolutional neural networks. *Journal of Instrumentation.* 15 - P10005, 2020.
DOI: 10.1088/1748-0221/15/10/P10005
Type of production: Scientific paper **Format:** Journal
- 28** ANTARES Coll. (A. Albert et al.). Model-independent search for neutrino sources with the ANTARES neutrino telescope. *Astroparticle Physics.* 114, pp. 35 - 47. 2020.
DOI: 10.1016/j.astropartphys.2019.06.003
Type of production: Scientific paper **Format:** Journal
- 29** A. Albert et al. (ANTARES Coll.). Observation of the cosmic ray shadow of the Sun with the ANTARES neutrino telescope. *Physical Review D.* 102 - 122007, 2020.
DOI: 10.1103/PhysRevD.102.122007
Type of production: Scientific paper
- 30** A. Albert et al. (ANTARES Coll.). Search for dark matter towards the Galactic Centre with 11 years of ANTARES data. *Physics Letters B.* 805 - 135439, 2020.
DOI: 10.1016/j.physletb.2020.135439
Type of production: Scientific paper
- 31** 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.* 80 - 487, 2020.
DOI: 10.1140/epjc/s10052-020-8015-6
Type of production: Scientific paper
- 32** S. Aiello et al. (KM3NeT Coll.). The Control Unit of the KM3NeT Data Acquisition System. *Computer physics communications.* 256 - 107433, 2020.
DOI: 10.1016/j.cpc.2020.107433
Type of production: Scientific paper
- 33** S. Aiello et al. (KM3NeT Coll.). gSeaGen: The KM3NeT GENIE-based code for neutrino telescopes. *Computer physics communications.* 256 - 107477, 2020.
DOI: 10.1016/j.cpc.2020.107477
Type of production: Scientific paper

- 34** including ANTARES Coll. (H. A. Ayala Solares et al.). A Search for Cosmic Neutrino and Gamma-Ray Emitting Transients in 7.3 yr of ANTARES and Fermi LAT Data. *The Astrophysical Journal*. 886, pp. 98. 2019.
DOI: 10.3847/1538-4357/ab4a74
Type of production: Scientific paper **Format:** Journal
- 35** ANTARES Coll. (A. Albert et al.). ANTARES Neutrino Search for Time and Space Correlations with IceCube High-energy Neutrino Events. *The Astrophysical Journal*. 879, pp. 108. 2019.
DOI: 10.3847/1538-4357/ab253c
Type of production: Scientific paper **Format:** Journal
- 36** KM3NeT Coll. (S. Aiello et al.). KM3NeT front-end and readout electronics system: hardware, firmware, and software. *Journal of Astronomical Telescopes, Instruments and Systems*. 5 - 4, pp. 046001. 2019.
DOI: 10.1117/1.JATIS.5.4.046001
Type of production: Scientific paper **Format:** Journal
- 37** ANTARES Coll. (A. Albert et al.). Measuring the atmospheric neutrino oscillation parameters and constraining the 3+1 neutrino model with ten years of ANTARES data. *Journal of High Energy Physics*. 06, pp. 113. 2019.
DOI: 10.1007/JHEP06(2019)113
Type of production: Scientific paper **Format:** Journal
- 38** ANTARES Coll., IceCube Coll., LIGO Scientific Coll. and Virgo Coll. (A. Albert et al.). 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*. 870, pp. 134. 2019.
DOI: 10.3847/1538-4357/aaf21d
Type of production: Scientific paper **Format:** Journal
- 39** KM3NeT Coll. (S. Aiello et al.). Sensitivity of the KM3NeT/ARCA neutrino telescope to point-like neutrino sources. *Astroparticle Physics*. 111, pp. 100 - 110. 2019.
DOI: 10.1016/j.astropartphys.2019.04.002
Type of production: Scientific paper **Format:** Journal
- 40** ANTARES Coll. (A. Albert et al.). All-flavor Search for a Diffuse Flux of Cosmic Neutrinos with Nine Years of ANTARES Data. *The Astrophysical Journal Letters*. 853 - L7, pp. 5. 2018.
DOI: 10.3847/2041-8213/aaa4f6
Type of production: Scientific paper **Format:** Journal
- 41** KM3NeT Coll. (S. Aiello et al.). Characterisation of the Hamamatsu photomultipliers for the KM3NeT Neutrino Telescope. *Journal of Instrumentation*. 13 - P05035, 2018.
DOI: 10.1088/1748-0221/13/05/P05035
Type of production: Scientific paper **Format:** Journal
- 42** ANTARES Coll. and IceCube Coll. (A. Albert et al.). Joint Constraints on Galactic Diffuse Neutrino Emission from the ANTARES and IceCube Neutrino Telescopes. *The Astrophysical Journal Letters*. 868 - L20, 2018.
DOI: 10.3847/2041-8213/aaeef
Type of production: Scientific paper **Format:** Journal
- 43** ANTARES Coll. (A. Albert et al.). Long-term monitoring of the ANTARES optical module efficiencies using 40K decays in sea water. *The European Physical Journal C*. 78 - 669, 2018.
DOI: 10.1140/epjc/s10052-018-6132-2
Type of production: Scientific paper **Format:** Journal

- 44** 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*. 475, pp. 1427 - 1446. 2018.
DOI: 10.1093/mnras/stx3074
Type of production: Scientific paper **Format:** Journal
- 45** ANTARES Coll. (A. Albert et al.). The Search for Neutrinos from TXS 0506+056 with the ANTARES Telescope. *The Astrophysical Journal Letters*. 863 - L30, pp. 5. 2018.
DOI: 10.3847/2041-8213/aad8c0
Type of production: Scientific paper **Format:** Journal
- 46** ANTARES Coll. (A. Albert et al.). The cosmic ray shadow of the Moon observed with the ANTARES neutrino telescope. *The European Physical Journal C*. 78 - 1006, 2018.
DOI: 10.1140/epjc/s10052-018-6451-3
Type of production: Scientific paper **Format:** Journal
- 47** ANTARES Coll. (A. Albert et al.). The search for high-energy neutrinos coincident with fast radio bursts with the ANTARES neutrino telescope. *Monthly Notices of the Royal Astronomical Society*. 482, pp. 184 - 193. 2018.
DOI: 10.1093/mnras/sty2621
Type of production: Scientific paper **Format:** Journal
- 48** HESS Coll. and ANTARES Coll. (E. Petroff et al.). A polarized fast radio burst at low Galactic latitude. *Monthly Notices of the Royal Astronomical Society*. 469, pp. 4465 - 4482. 2017.
DOI: 10.1093/mnras/stx1098
Type of production: Scientific paper **Format:** Journal
- 49** ANTARES Coll. (A. Albert et al.). All-sky search for high-energy neutrinos from gravitational wave event GW170104 with the Antares neutrino telescope. *The European Physical Journal C*. 77 - 911, 2017.
DOI: 10.1140/epjc/s10052-017-5451-z
Type of production: Scientific paper **Format:** Journal
- 50** ANTARES Coll. (A. Albert et al.). An Algorithm for the Reconstruction of Neutrino-induced Showers in the ANTARES Neutrino Telescope. *The Astronomical Journal*. 154, pp. 275. 2017.
DOI: 10.3847/1538-3881/aa9709
Type of production: Scientific paper **Format:** Journal
- 51** ANTARES Coll. (A. Albert et al.). An algorithm for the reconstruction of high-energy neutrino-induced particle showers and its application to the ANTARES neutrino telescope. *The European Physical Journal*. 77 - 419, 2017.
DOI: 10.1140/epjc/s10052-017-4979-2
Type of production: Scientific paper **Format:** Journal
- 52** ANTARES Coll. (X. Durrieu de Madron et al.). Deep sediment resuspension and thick nepheloid layer generation by open-ocean convection. *Journal of Geophysical Research Oceans*. 122 - 3, pp. 2291 - 2318. 2017.
DOI: 10.1002/2016JC012062
Type of production: Scientific paper **Format:** Journal
- 53** ANTARES Coll. (A. Albert et al.). First all-flavor neutrino pointlike source search with the ANTARES neutrino telescope. *Physical Review D*. 96 - 082001, 2017.
DOI: 10.1103/PhysRevD.96.082001
Type of production: Scientific paper **Format:** Journal



- 54** KM3NeT Coll. (S. Adrián-Martínez et al.). Intrinsic limits on resolutions in muon- and electron-neutrino charged-current events in the KM3NeT/ORCA detector. *Journal of High Energy Physics*. 05, pp. 008. 2017.
DOI: 10.1007/JHEP05(2017)008
Type of production: Scientific paper **Format:** Journal
- 55** B. P. Abbott et al. (including ANTARES Coll.). Multi-messenger Observations of a Binary Neutron Star Merger. *The Astrophysical Journal Letters*. 848 - L12, pp. 59. 2017.
DOI: 10.3847/2041-8213/aa91c9
Type of production: Scientific paper **Format:** Journal
- 56** ANTARES Coll. (A. Albert et al.). New constraints on all flavor Galactic diffuse neutrino emission with the ANTARES telescope. *Physical Review D*. 96 - 062001, 2017.
DOI: 10.1103/PhysRevD.96.062001
Type of production: Scientific paper **Format:** Journal
- 57** ANTARES Coll. (A. Albert et al.). Results from the search for dark matter in the Milky Way with 9 years of data of the ANTARES neutrino telescope. *Physics Letters B*. 769 - 249, 2017.
DOI: 10.1016/j.physletb.2017.03.063
Type of production: Scientific paper **Format:** Journal
- 58** ANTARES Coll. (A. Albert et al.). Search for Dark Matter Annihilation in the Earth using the ANTARES Neutrino Telescope. *Physics of the Dark Universe*. 16, pp. 41 - 48. 2017.
DOI: 10.1016/j.dark.2017.04.005
Type of production: Scientific paper **Format:** Journal
- 59** 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*. 850 - L35, pp. 18. 2017.
DOI: 10.3847/2041-8213/aa9aed
Type of production: Scientific paper **Format:** Journal
- 60** ANTARES Coll., IceCube Coll., LIGO Scientific Coll. and Virgo Coll. (A. Albert et al.). Search for High-energy Neutrinos from Gravitational Wave Event GW151226 and Candidate LVT151012 with ANTARES and IceCube. *Physical Review D*. 96 - 022005, 2017.
DOI: 10.1103/PhysRevD.96.022005
Type of production: Scientific paper **Format:** Journal
- 61** ANTARES Coll. (A. Albert et al.). Search for high-energy neutrinos from bright GRBs with ANTARES. *Monthly Notices of the Royal Astronomical Society*. 469, pp. 906 - 915. 2017.
DOI: 10.1093/mnras/stx902
Type of production: Scientific paper **Format:** Journal
- 62** ANTARES Coll. (A. Albert et al.). Search for relativistic magnetic monopoles with five years of the ANTARES detector data. *Journal of High Energy Physics*. 07 - 054, 2017.
DOI: 10.1007/JHEP07(2017)054
Type of production: Scientific paper **Format:** Journal
- 63** ANTARES Coll. (M. André et al.). Sperm whale long-range echolocation sounds revealed by ANTARES, a deep-sea neutrino telescope. *Scientific Reports*. 7 - 45517, 2017.
DOI: 10.1038/srep45517
Type of production: Scientific paper **Format:** Journal



- 64** ANTARES Coll. (A. Albert et al.). Stacked search for time shifted high energy neutrinos from gamma ray bursts with the ANTARES neutrino telescope. The European Physical Journal C. 77 - 20, 2017.
DOI: 10.1140/epjc/s10052-016-4496-8
Type of production: Scientific paper **Format:** Journal
- 65** ANTARES Coll. (A. Albert et al.). Time-dependent search for neutrino emission from x-ray binaries with the ANTARES telescope. Journal of Cosmology and Astroparticle Physics. 10, pp. 019. 2017.
DOI: 10.1088/1475-7516/2017/04/019
Type of production: Scientific paper **Format:** Journal
- 66** KM3NeT Coll. (S. Adrián-Martínez et al.). A method to stabilise the performance of negatively fed KM3NeT photomultipliers. Journal of Instrumentation. 11 - P12014, 2016.
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Type of production: Scientific paper **Format:** Journal
- 67** ANTARES Coll. (S. Adrián-Martínez et al.). A search for Secluded Dark Matter in the Sun with the ANTARES neutrino telescope. Journal of Cosmology and Astroparticle Physics. 05, pp. 016. 2016.
DOI: 10.1088/1475-7516/2016/05/016
Type of production: Scientific paper **Format:** Journal
- 68** ANTARES Coll. (S. Adrián-Martínez et al.). Constraints on the neutrino emission from the Galactic Ridge with the ANTARES telescope. Physics Letters B. 760, pp. 143. 2016.
DOI: 10.1016/j.physletb.2016.06.051
Type of production: Scientific paper **Format:** Journal
- 69** ANTARES Coll., IceCube Coll., LIGO Scientific Coll. and Virgo Coll. (S. Adrián-Martínez et al.). High-energy Neutrino follow-up search of Gravitational Wave Event GW150914 with ANTARES and IceCube. Physical Review D. 93 - 122010, 2016.
DOI: 10.1103/PhysRevD.93.122010
Type of production: Scientific paper **Format:** Journal
- 70** KM3NeT Coll. (S. Adrián-Martínez et al.). Letter of intent for KM3NeT 2.0. Journal of Physics G. 43 - 084001, 2016.
DOI: 10.1088/0954-3899/43/8/084001
Type of production: Scientific paper **Format:** Journal
- 71** ANTARES Coll. (S. Adrián-Martínez et al.). Limits on Dark Matter Annihilation in the Sun using the ANTARES Neutrino Telescope. Physics Letters B. 759, pp. 69 - 74. 2016.
DOI: 10.1016/j.physletb.2016.05.019
Type of production: Scientific paper **Format:** Journal
- 72** MWA Coll. and ANTARES Coll. (S. Croft et al.). Murchison Widefield Array Limits on Radio Emission from ANTARES Neutrino Events. The Astrophysical Journal. 829 - 2, pp. L24. 2016.
DOI: 10.3847/2041-8205/820/2/L24
Type of production: Scientific paper **Format:** Journal
- 73** ANTARES Coll. (S. Adrián-Martínez et al.). Optical and X-ray early follow-up of ANTARES neutrino alerts. Journal of Cosmology and Astroparticle Physics. 02, pp. 062. 2016.
DOI: 10.1088/1475-7516/2016/02/062
Type of production: Scientific paper **Format:** Journal

- 74** ANTARES Coll. and IceCube Coll. (S. Adrián-Martínez et al.). The First Combined Search for Neutrino Point-sources in the Southern Hemisphere With the Antares and Icecube Neutrino Telescopes. *The Astrophysical Journal*. 823, pp. 65. 2016.
DOI: 10.3847/0004-637X/823/1/65
Type of production: Scientific paper **Format:** Journal
- 75** ANTARES Coll. (S. Adrián-Martínez et al.). Time calibration with atmospheric muon tracks in the ANTARES neutrino telescope. *Astroparticle Physics*. 78, pp. 43 - 51. 2016.
DOI: 10.1016/j.astropartphys.2016.02.001
Type of production: Scientific paper **Format:** Journal
- 76** ANTARES Coll. (S. Adrián-Martínez et al.). ANTARES Constrains a Blazar Origin of Two IceCube PeV Neutrino Events. *Astronomy & Astrophysics*. 576 - L8, 2015.
DOI: 10.1051/0004-6361/201525670
Type of production: Scientific paper **Format:** Journal
- 77** ANTARES Coll. (S. Adrián-Martínez et al.). Search for muon-neutrino emission from GeV and TeV gamma-ray flaring blazars using five years of data of the ANTARES telescope. *Journal of Cosmology and Astroparticle Physics*. 12, pp. 014. 2015.
DOI: 10.1088/1475-7516/2015/12/014
Type of production: Scientific paper **Format:** Journal
- 78** ANTARES Coll. (S. Adrián-Martínez et al.). Search of Dark Matter Annihilation in the Galactic Centre using the ANTARES Neutrino Telescope. *Journal of Cosmology and Astroparticle Physics*. 10, pp. 068. 2015.
DOI: 10.1088/1475-7516/2015/10/068
Type of production: Scientific paper **Format:** Journal
- 79** ANTARES Coll. (S. Adrián-Martínez et al.). A Search for Neutrino Emission from the Fermi Bubbles with the ANTARES Telescope. *The European Physical Journal C*. 74 - 2701, 2014.
DOI: 10.1016/j.nima.2013.11.096
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- 80** ANTARES Coll. (S. Adrián-Martínez et al.). A Search for Time Dependent Neutrino Emission from Microquasars with the ANTARES Telescope. *Journal of High Energy Astrophysics*. 3-4, pp. 9 - 17. 2014.
DOI: 10.1016/j.jheap.2014.06.002
Type of production: Scientific paper **Format:** Journal
- 81** ANTARES Coll. (S. Adrián-Martínez et al.). Constraining the neutrino emission of gravitationally lensed Flat-Spectrum Radio Quasars with ANTARES data. *Journal of Cosmology and Astroparticle Physics*. 11, pp. 017. 2014.
DOI: 10.1088/1475-7516/2014/11/017
Type of production: Scientific paper **Format:** Journal
- 82** Hans van Haren; ANTARES Coll. (S. Adrián-Martínez et al.). High-frequency internal wave motions at the ANTARES site in the deep Western Mediterranean. *Ocean Dynamics*. 64 - 4, pp. 507 - 517. 2014.
DOI: 10.1007/s10236-014-0702-0
Type of production: Scientific paper **Format:** Journal
- 83** ANTARES Coll. (S. Adrián-Martínez et al.). Searches for Point-like and extended neutrino sources close to the Galactic Centre using the ANTARES neutrino Telescope. *The Astrophysical Journal Letters*. 786 - L5, pp. L14 - L19. 2014.
DOI: 10.1088/2041-8205/786/1/L5



Type of production: Scientific paper **Format:** Journal

- 84** ANTARES Coll. (S. Adrián-Martínez et al.). Searches for clustering in the time integrated skymap of the ANTARES neutrino telescope. *Journal of Cosmology and Astroparticle Physics*. 05, pp. 001. 2014.

DOI: 10.1088/1475-7516/2014/05/001

Type of production: Scientific paper **Format:** Journal

- 85** ANTARES Coll. (S. Adrián-Martínez et al.). A First Search for coincident Gravitational Waves and High Energy Neutrinos using LIGO, Virgo and ANTARES data from 2007. *Journal of Cosmology and Astroparticle Physics*. 06, pp. 008. 2013.

DOI: 10.1088/1475-7516/2013/06/008

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- 86** ANTARES Coll. (C. Tamburini et al.). Deep-Sea Bioluminescence Blooms after Dense Water Formation at the Ocean Surface. *Public Library of Science one*. 8 - e67523, 2013.

DOI: 10.1371/journal.pone.0067523

Type of production: Scientific paper **Format:** Journal

- 87** ANTARES Coll. (S. Adrián-Martínez et al.). First results on dark matter annihilation in the Sun using the ANTARES neutrino telescope. *Journal of Cosmology and Astroparticle Physics*. 11, pp. 032. 2013.

DOI: 10.1088/1475-7516/2013/11/032

Type of production: Scientific paper **Format:** Journal

- 88** ANTARES Coll. (S. Adrián-Martínez et al.). First search for neutrinos in correlation with gamma-ray bursts with the ANTARES neutrino telescope. *Journal of Cosmology and Astroparticle Physics*. 1303 - 006, 2013.

DOI: 10.1088/1475-7516/2013/03/006

Type of production: Scientific paper **Format:** Journal

- 89** ANTARES Coll. (S. Adrián-Martínez et al.). Measurement of the atmospheric ν_{μ} energy spectrum from 100 GeV to 200 TeV with the ANTARES telescope. *The European Physical Journal C*. 73 - 2606, 2013.

DOI: 10.1140/epjc/s10052-013-2606-4

Type of production: Scientific paper **Format:** Journal

- 90** ANTARES Coll. (S. Adrián-Martínez et al.). Search for a correlation between ANTARES neutrinos and Pierre Auger Observatory UHECRs arrival directions. *The Astrophysical Journal*. 774 - 19, 2013.

DOI: 10.1088/0004-637X/774/1/19

Type of production: Scientific paper **Format:** Journal

- 91** ANTARES Coll. (S. Adrián-Martínez et al.). Search for muon neutrinos from gamma-ray bursts with the ANTARES neutrino telescope using 2008 to 2011 data. *Astronomy & Astrophysics*. 559 - A9, 2013.

DOI: 10.1051/0004-6361/201322169

Type of production: Scientific paper **Format:** Journal

- 92** ANTARES Coll. (J. A. Aguilar et al.). A method for detection of muon induced electromagnetic showers with the ANTARES detector. *Nuclear Instruments and Methods in Physics Research Section A*. 675, pp. 56 - 62. 2012.

DOI: 10.1016/j.nima.2012.01.060

Type of production: Scientific paper **Format:** Journal

- 93** ANTARES Coll. (S. Adrián-Martínez et al.). Measurement of Atmospheric Neutrino Oscillations with the ANTARES Neutrino Telescope. *Physics Letters B*. 714 - 2-5, pp. 224 - 230. 2012.

DOI: 10.1016/j.physletb.2012.07.002

Type of production: Scientific paper **Format:** Journal

- 94** ANTARES Coll. (S. Adrián-Martínez et al.). Measurement of the Group Velocity of Light in Sea Water at the ANTARES Site. *Astroparticle Physics*. 35, pp. 552 - 557. 2012.
DOI: 10.1016/j.astropartphys.2011.12.003
Type of production: Scientific paper **Format:** Journal
- 95** ANTARES Coll. (S. Adrián-Martínez et al.). Search for Cosmic Neutrino Point Sources with Four Year Data of the ANTARES Telescope. *The Astrophysical Journal*. 760 - 53, 2012.
DOI: 10.1088/0004-637X/760/1/53
Type of production: Scientific paper **Format:** Journal
- 96** ANTARES Coll. (S. Adrián-Martínez et al.). Search for Neutrino Emission from Gamma-Ray Flaring Blazars with the ANTARES Telescope. *Astroparticle Physics*. 36 - 1, pp. 204 - 210. 2012.
DOI: 10.1016/j.astropartphys.2012.06.001
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- 97** ANTARES Coll. (S. Adrián-Martínez et al.). Search for Relativistic Magnetic Monopoles with the ANTARES Neutrino Telescope. *Astroparticle Physics*. 35, pp. 634 - 640. 2012.
DOI: 10.1016/j.astropartphys.2012.02.007
Type of production: Scientific paper **Format:** Journal
- 98** ANTARES Coll. (M. Ageron et al.). The ANTARES Telescope Neutrino Alert System. *Astroparticle Physics*. 35, pp. 530 - 536. 2012.
DOI: 10.1016/j.astropartphys.2011.11.011
Type of production: Scientific paper **Format:** Journal
- 99** ANTARES Coll. (S. Adrián-Martínez et al.). The Positioning System of the ANTARES Neutrino Telescope. *Journal of Instrumentation*. 7 - T08002, 2012.
DOI: 10.1088/1748-0221/7/08/T08002
Type of production: Scientific paper **Format:** Journal
- 100** ANTARES Coll. (S. Adrián-Martínez et al.). First Search for Point Sources of High Energy Cosmic Neutrinos with the ANTARES Neutrino Telescope. *The Astrophysical Journal Letters*. 743, pp. L14 - L19. 2011.
DOI: 10.1088/2041-8205/743/1/L14
Type of production: Scientific paper **Format:** Journal
- 101** Carlos J. Zapata-Rodríguez; Agustín Sánchez-Losa. Three-dimensional field distribution in the focal region of low-Fresnel-number axicons. *Journal of the Optical Society of America A*. 23 - 12, pp. 3016 - 3026. 2006.
DOI: 10.1364/JOSAA.23.003016
Type of production: Scientific paper **Format:** Journal

Works submitted to national or international conferences

- 1** **Title of the work:** Multi-messenger Astronomy with High-Energy Neutrinos
Name of the conference: COST QGMM Workshop 2022
Type of event: Workshop
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Naples, Campania, Italy
Date of event: 11/07/2022
End date: 12/07/2022



Publication in conference proceedings: No
Agustín Sánchez Losa.

- 2** **Title of the work:** Status and Prospects of Mediterranean Neutrino Telescopes: KM3NeT & ANTARES
Name of the conference: 30th Texas Symposium on Relativistic Astrophysics
Type of event: Conference
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Portsmouth, Hampshire and Isle of Wight, United Kingdom
Date of event: 15/12/2019
End date: 20/12/2019
Publication in conference proceedings: No
Agustín Sánchez Losa.
- 3** **Title of the work:** Latest results on high-energy cosmic neutrino searches with the ANTARES neutrino telescope
Name of the conference: Ultra High Energy Cosmic Rays 2018
Type of event: Conference
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Paris, Île de France, France
Date of event: 08/10/2018
End date: 12/10/2018
Publication in conference proceedings: Yes
Agustín Sánchez Losa. The European Physical Journal Web of Conferences,
DOI: 10.1051/epjconf/201921003004
- 4** **Title of the work:** Time-dependent search of neutrino emission from X-ray and gamma-ray binaries with the ANTARES telescope
Name of the conference: 35th International Cosmic Ray Conference (ICRC 2017)
Type of event: Conference
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Busan, Republic of Korea
Date of event: 12/07/2017
End date: 20/07/2017
Publication in conference proceedings: Yes
Agustín Sánchez Losa; Damien Dornic; Alexis Coleiro. Proceedings of Science, Available on-line at:
<<https://pos.sissa.it/301/971/pdf>>.
- 5** **Title of the work:** Time-dependent search of neutrino emission from bright gamma-ray flaring blazars with the ANTARES telescope
Name of the conference: 35th International Cosmic Ray Conference (ICRC 2017)
Type of event: Conference
Type of participation: 'Participatory - poster
Corresponding author: Yes
City of event: Busan, Republic of Korea
Date of event: 12/07/2017
End date: 20/07/2017
Publication in conference proceedings: Yes



Agustín Sánchez Losa; Damien Dornic. Proceedings of Science, Available on-line at: <https://pos.sissa.it/301/970/pdf>.

- 6** **Title of the work:** Results from the ANTARES Neutrino Telescope
Name of the conference: Roma International Conference on Astroparticle Physics 2016 (RICAP-16)
Type of event: Conference
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Frascati, Lazio, Italy
Date of event: 21/06/2016
End date: 24/06/2016
Publication in conference proceedings: Yes
Agustín Sánchez Losa. The European Physical Journal Web of Conferences,
DOI: 10.1051/epjconf/201713604002
- 7** **Title of the work:** Time-dependent search of high energy cosmic neutrinos from variable Blazars with the ANTARES telescope
Name of the conference: 34th International Cosmic Ray Conference (ICRC 2015)
Type of event: Conference
Type of participation: Participatory - poster
Corresponding author: Yes
City of event: The Hague, Zuid-Holland, Holland
Date of event: 30/07/2015
End date: 06/08/2015
Publication in conference proceedings: Yes
Damien Dornic; Agustín Sánchez Losa. Proceedings of Science, Available on-line at: <https://pos.sissa.it/236/1075/pdf>.
- 8** **Title of the work:** Time-dependent search of neutrino emission from X-ray binaries with the ANTARES telescopes
Name of the conference: 34th International Cosmic Ray Conference (ICRC 2015)
Type of event: Conference
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: The Hague, Zuid-Holland, Holland
Date of event: 30/07/2015
End date: 06/08/2015
Publication in conference proceedings: Yes
Damien Dornic; Agustín Sánchez Losa. Proceedings of Science, Available on-line at: <https://pos.sissa.it/236/1046/pdf>.
- 9** **Title of the work:** Search of a neutrino signal with the ANTARES telescope based on multi-messenger analyses
Name of the conference: Astroparticle Physics 2014: TeV Particle Astrophysics and Identification of Dark Matter
Type of event: Conference
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Amsterdam, Noord-Holland, Holland
Date of event: 23/06/2014
End date: 28/06/2014
Agustín Sánchez Losa. Available on-line at: <https://indico.cern.ch/event/278032/contributions/1623710/>.



- 10** **Title of the work:** Search for neutrino emission in gamma-ray flaring blazars with the ANTARES telescope
Name of the conference: XXXIV Reunión Bienal de la Real Soceidad Española de Física (Bienal 2013)
Type of event: Conference
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Valencia, Valencian Community, Spain
Date of event: 15/07/2013
End date: 19/07/2013
Publication in conference proceedings: Yes
Agustín Sánchez Losa. 725, pp. 60 - 63. ISBN 978-84-616-5607-3
- 11** **Title of the work:** Search for neutrino emission of gamma-ray flaring blazars with the ANTARES telescope
Name of the conference: 33th International Cosmic Ray Conference (ICRC 2013)
Type of event: Conference
Type of participation: 'Participatory - poster
Corresponding author: Yes
City of event: Rio de Janeiro, Brazil
Date of event: 02/07/2013
End date: 09/07/2013
Publication in conference proceedings: Yes
Damien Dornic; Agustín Sánchez Losa. Brazilian Journal of Physics, ISBN 978-85-89064-29-3
- 12** **Title of the work:** Transient Point Source Analyses in the ANTARES Neutrino Telescope
Name of the conference: Roma International Conference on Astroparticle Physics 2016 (RICAP-16)
Type of event: Conference
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Rome, Lazio, Italy
Date of event: 22/05/2013
End date: 24/05/2013
Publication in conference proceedings: Yes
Agustín Sánchez Losa. 742, pp. 195 - 198. Nuclear Instruments and Methods in Physics Research Section A,
DOI: 10.1016/j.nima.2013.11.096
- 13** **Title of the work:** Search for neutrino emission in gamma-ray flaring blazars with the ANTARES telescope
Name of the conference: International Workshop on Very Large Volume Neutrino Telescopes 2011 (VLVnT11)
Type of event: Conference
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Erlangen, Germany
Date of event: 12/10/2011
End date: 14/10/2011
Publication in conference proceedings: Yes
Agustín Sánchez Losa. 725, pp. 60 - 63. Nuclear Instruments and Methods in Physics Research Section A,
DOI: 10.1016/j.nima.2012.11.163



Other dissemination activities

- 1** **Title of the work:** Observa el Universo desde las profundidades del mar: Telescopios de neutrinos
Name of the event: Expociencia 2022
Type of event: Fairs and exhibitions
City of event: Paterna, Valencian Community, Spain
Date of event: 28/05/2022
Organising entity: Universitat de València **Type of entity:** University
- 2** **Title of the work:** PACK? SÌ, GRAZIE!
Name of the event: European Researchers' Night - Apulia
Type of event: Fairs and exhibitions
City of event: Bari, Puglia, Italy
Date of event: 27/09/2019
Organising entity: European Commission (Horizon 2020)
Available on-line at: <<https://www.laricercaviendinotte.it/bari/pack-si-grazie/>>.
- 3** **Title of the work:** KM3NeT, un telescopio sotto il mare
Name of the event: European Researchers' Night - Apulia
Type of event: Fairs and exhibitions
City of event: Bari, Puglia, Italy
Date of event: 28/09/2018
Organising entity: European Commission (UE-H2020-MSCA-NIGHT-2018, Grant No. 818783)
- 4** **Title of the work:** Observa el Universo desde las profundidades del mar: Telescopios de neutrinos
Name of the event: Expociencia 2015
Type of event: Fairs and exhibitions
City of event: Paterna, Valencian Community, Spain
Date of event: 30/05/2015
Organising entity: Universitat de València **Type of entity:** University
- 5** **Title of the work:** Observa el Universo desde las profundidades del mar: Telescopios de neutrinos
Name of the event: Expociencia 2014
Type of event: Fairs and exhibitions
City of event: Paterna, Valencian Community, Spain
Date of event: 24/05/2014
Organising entity: Universitat de València **Type of entity:** University
- 6** **Title of the work:** Observa el Universo desde las profundidades del mar: Telescopios de neutrinos
Name of the event: Expociencia 2013
Type of event: Fairs and exhibitions
City of event: Paterna, Valencian Community, Spain
Date of event: 25/05/2013
Organising entity: Universitat de València **Type of entity:** University
- 7** **Title of the work:** Neutrino Telescopes at Nikhef
Name of the event: Open Dag Science Park 2011
Type of event: Fairs and exhibitions
City of event: Amsterdam, Noord-Holland, Holland



Date of event: 08/10/2011

Organising entity: Amsterdam Science Park - Nikhef (Nationaal instituut voor subatomaire fysica)

8 Title of the work: Guided visits to the ANTARES laboratory at IFIC (2014-2015)

Type of event: Guided visits

Organising entity: Instituto de Física Corpuscular - IFIC (Spain)

R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

Committee title: "Quality Assurance & Quality Control" KM3NeT

Start-End date: 01/07/2016 - 31/03/2021

Organization of R&D activities

- 1 Title of the activity:** KM3NeT Face-2-Face Astro WG Meeting (Valencia-Spain)
Type of activity: Workshop of the KM3NeT collaboration on cosmic neutrino analyses
Geographical area: European Union
City convening entity: Valencia, Valencian Community, Spain
Type of participation: Organiser
Start-End date: 31/08/2022 - 02/09/2022
- 2 Title of the activity:** Very Large Volume Neutrino Telescope Workshop (VLVnT-2021)
Type of activity: Workshop on Neutrino Telescopes
Geographical area: European Union
City of event: Valencia, Valencian Community, Spain
City convening entity: Valencia, Valencian Community, Spain
Type of participation: Organiser
Start-End date: 18/05/2021 - 21/05/2021
Duration: 4 days
- 3 Title of the activity:** ANTARES/KM3NeT Collaboration Meeting (Bari-Italy)
Type of activity: Workshop of the ANTARES and KM3NeT collaborations
Geographical area: European Union
City convening entity: Bari, Puglia, Italy
Type of participation: Organiser
Start-End date: 12/06/2017 - 16/06/2017
- 4 Title of the activity:** ANTARES/KM3NeT Collaboration Meeting (Valencia-Spain)
Type of activity: Workshop of the ANTARES and KM3NeT collaborations
Geographical area: European Union
City convening entity: Valencia, Valencian Community, Spain
Type of participation: Organiser
Start-End date: 23/02/2015 - 27/02/2015



Other achievements

Stays in public or private R&D centres

- 1** **Entity:** Centre de Physique des Particules de Marseille (CPPM) **Type of entity:** State agency
City of entity: Marseilles, Provence-Alpes-Côte d'Azur, France
Start-End date: 19/11/2017 - 20/12/2017 **Duration:** 1 month
Goals of the stay: Invited
Provable tasks: Work on ANTARES collaboration: transient analysis
- 2** **Entity:** Centre de Physique des Particules de Marseille (CPPM) **Type of entity:** State agency
City of entity: Marseilles, Provence-Alpes-Côte d'Azur, France
Start-End date: 03/06/2013 - 28/10/2013 **Duration:** 5 months
Goals of the stay: Doctorate
Provable tasks: Work on ANTARES collaboration: transient analysis, detector operations
- 3** **Entity:** Centre de Physique des Particules de Marseille (CPPM)
City of entity: Marseilles, Provence-Alpes-Côte d'Azur, France
Start-End date: 13/01/2013 - 31/01/2013 **Duration:** 18 days
Goals of the stay: Doctorate
Provable tasks: Work on ANTARES collaboration: transient analysis
- 4** **Entity:** Centre de Physique des Particules de Marseille (CPPM)
City of entity: Marseilles, Provence-Alpes-Côte d'Azur, France
Start-End date: 02/03/2012 - 27/06/2012 **Duration:** 4 months
Goals of the stay: Doctorate
Provable tasks: Work on ANTARES collaboration: transient analysis, detector operations
- 5** **Entity:** Nationaal instituut voor subatomaire fysica (Nikhef)
City of entity: Amsterdam, Noord-Holland, Holland
Start-End date: 04/10/2011 - 15/12/2011 **Duration:** 2 months - 15 days
Goals of the stay: Doctorate
Provable tasks: Work on ANTARES collaboration: point source analysis techniques

Prizes, mentions and distinctions

Description: The Global Neutrino Network Dissertation Prize 2016

Awarding entity: Global Neutrino Network - GNN

Conferral date: 01/10/2016