

# PUBLICATIONS ASTRONOMIE NEUTRINO – 27 OCT 2020

## article

2020

1. Dependence of atmospheric muon rate on seawater depth measured with the first KM3NeT detection units, M. Ageron *et al.*, KM3NeT Collaboration, Eur. Phys. J. C (2020) 80-99
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3. Search for dark matter towards the Galactic Centre with 11 years of ANTARES data, A. Albert *et al.*, ANTARES Collaboration, Phys. Lett. B 805 (2020) 135439
4. Testing cosmic ray composition models with very large volume neutrino telescopes, L. A. Fusco *et al.*, Eur. Phys. J. Plus 135 (2020) 624
5. ANTARES and IceCube Combined Search for Neutrino Point-like and Extended Sources in the Southern Sky, A. Albert *et al.*, ANTARES Collaboration, IceCube Collaboration, Astrophys. J 892 (2020) 92
6. Search for neutrino counterparts of catalogued gravitational-wave events detected by Advanced-LIGO and Virgo during run O2 with ANTARES, A. Albert *et al.*, ANTARES Collaboration, Eur. Phys. J. C 80 (2020) 487
7. Combining neutrino experimental light-curves for pointing to the next Galactic Core-Collapse Supernova, A. Coleiro *et al.*, Eur. Phys. J. C 80 (2020) 856
8. gSeaGen: the KM3NeT GENIE-based code for neutrino telescopes, S. Aiello *et al.*, KM3NeT Collaboration, Comput. Phys. Commun. 256 (2020) 107477
9. Event reconstruction for KM3NeT/ORCA using convolutional neural networks, S. Aiello *et al.*, KM3NeT Collaboration, J. Instrum 15 (2020) P10005

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5. Letter of Interest for a Neutrino Beam from Protvino to KM3NeT/ORCA, A. V. Akindinov *et al.*, *Eur. Phys. J. C* 79 (2019) 758
6. ANTARES neutrino search for time and space correlations with IceCube high-energy neutrino events, A. Albert *et al.*, ANTARES Collaboration, *Astrophys. J* 879 (2019) 108
7. Sensitivity of the KM3NeT/ARCA neutrino telescope to point-like neutrino sources, S. Aiello *et al.*, KM3NeT Collaboration, *Astropart. Phys.* 111 (2019) 100-110
8. A Search for Cosmic Neutrino and Gamma-Ray Emitting Transients in 7.3 Years of ANTARES and Fermi LAT Data, H. A. Ayala Solares *et al.*, AMON and ANTARES Collaborations, *Astrophys. J* 886 (2019) 98
9. Distributed sensing of earthquakes and ocean-solid Earth interactions on seafloor telecom cables, A. Sladen *et al.*, *Nat. Commun.* 10 (2019) 5777
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3. Astroparticle and neutrino oscillation research with KM3NeT, V. Kulikovskiy, Nuovo Cim. C, 40, 11th Workshop on Science with the New generation of High Energy Gamma-ray Experiments (2017) 141, Pisa, Italy, 18-21 Oct 2016
4. KM3NeT-ORCA: Oscillation Research with Cosmics in the Abyss, P. Coyle, J. Phys. Conf. Ser., 888, 27th International Conference on Neutrino Physics and Astrophysics (2017) 012024, London, United Kingdom, 4-9 Jul 2016

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3. KM3NeT - ORCA: Measuring neutrino oscillations and the mass hierarchy in the Mediterranean Sea, J. Brunner, PoS, 2015, 34th International Cosmic Ray Conference (2016) 1140, The Hague, Netherlands, 30 Jul - 06 Aug 2015
4. Acoustic positioning system for KM3NeT, S. Viola, M. Ardid, V. Bertin, R. Lahmann, C. Pellegrino, G. Riccobene, M. Saldaña, P. Sapienza, F. Simeone, PoS, 2015, 34th International Cosmic Ray Conference (2016) 1169, The Hague, Netherlands, 30 Jul - 06 Aug 2015
5. Searches for neutrinos from Gamma-ray burst with ANTARES, J. Schmid, D. Turpin, PoS, 2015, 34th International Cosmic Ray Conference (2016) 1057, The Hague, Netherlands, 30 Jul - 06 Aug 2015
6. Follow-up of high energy neutrinos detected by the ANTARES telescope, A. Mathieu, PoS, 2015, 34th International Cosmic Ray Conference (2016) 1093, The Hague, Netherlands, 30 Jul - 06 Aug 2015
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10. Follow-up of high energy neutrinos detected by the ANTARES telescope, A. Mathieu, EPJ. Web. Conf., 116, 7th Very Large Volume Neutrino Telescope Workshop (2016) 10003, Rome, Italy, 14-16 Sep 2015
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4. Measurement of neutrino oscillations with the ANTARES detector, J. Brunner, Nucl. Instrum. Meth. A, 725, 5th Very Large Volume Neutrino Telescope Workshop (2013) 72-75, Erlangen, Germany, 12-14 Oct 2011
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8. IceCube and ANTARES, J. Brunner, EPJ. Web. Conf., 52, 17th International Symposium on Very High Energy Cosmic Ray Interactions (2013) 09005, Berlin, Germany, 10-15 Aug 2012
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8. ANTARES: Status, first results and multi-messenger astronomy, M. Vecchi, indéfini, 46th Rencontres de Moriond on Electroweak Interactions and Unified Theories (2011), La Thuile, Italy, 13-20 Mar 2011
9. Optical Follow-Up of High Energy Neutrinos Detected by the ANTARES Telescope, M. Vecchi, M. Ageron, C. Akerlof, I. Al Samarai, S. Basa, V. Bertin, M. Boer, J. Brunner, J. Busto, D. Dornic, A. Klotz, F. Schüssler, B. Vallage, W. Zheng, indéfini, Annual meeting of the French Society of Astronomy and Astrophysics (SF2A 2011) (2011), Paris, France, 20-23 Jun 2011
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11. Observation of the Moon shadow with the ANTARES neutrino telescope, C. Distefano, C. Rivière, PoS, EPS- HEP2011, 2011 Europhysics Conference on High Energy Physics (2011) 385, Grenoble, France, 21-27 Jul 2011
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14. Moon Shadow Observation with the ANTARES Neutrino Telescope, C. Rivière, indéfini, 32nd International Cosmic Ray Conference (ICRC 2011) (2011), Beijing, China, 11-18 Aug 2011
15. Search for Magnetic Monopoles with the ANTARES Underwater Neutrino Telescope, N. Picot Clemente, indéfini, 32nd International Cosmic Ray Conference (ICRC 2011) (2011), Beijing, China, 11-18 Aug 2011
16. On neutrino oscillations searches with ANTARES, G. Guillard, J. Brunner, indéfini, 32nd International Cosmic Ray Conference (ICRC 2011) (2011), Beijing, China, 11-18 Aug 2011

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2. The ANTARES deep sea neutrino telescope: status and first results, P. Coyle, ICRC, 31st International Cosmic Ray Conference (ICRC 2009) (2010), Lodz, Poland, 7-15 Jul 2009
3. Search for exotic Physics with the ANTARES detector, G. Pavalas, N. Picot-Clémente, ICRC, 31st International Cosmic Ray Conference (ICRC 2009) (2010), Lodz, Poland, 7-15 Jul 2009
4. Search for neutrinos from transient sources with the ANTARES telescope and optical follow-up observations, D. Dornic, S. Basa, J. Brunner, I. Al Samarai, J. Busto, A. Klotz, S. Escoffier, V. Bertin, B. Vallage, B. Gendre, A. Mazure,



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7. Indirect search for Dark Matter with the ANTARES neutrino telescope, Z. Charif, indéfini, Journées de Rencontre des Jeunes Chercheurs (JRJC 2010) (2010), Angers, France, 29 Nov - 5 Dec 2010

## présentation orale

2020

1. KM3NeT real-time multi messenger analysis, **D. Dornic**, Enabling novel real-time multi-messenger studies, Berlin, Germany, 26-27 Mar 2020

2019

1. KM3NeT science and multi-messenger synergies, **D. Dornic**, The New Era of Multi-Messenger Astrophysics (ASTERICS Symposium), Groningen, Netherlands, 25-29 Mar 2019
2. Multi-messenger real-time analysis framework of the KM3NeT neutrino telescope, **D. Dornic**, The New Era of Multi-Messenger Astrophysics (ASTERICS Symposium), Groningen, Netherlands, 25-29 Mar 2019
3. Supernova detection and real-time alerts with the KM3NeT neutrino telescope, **M. Lincetto**, The New Era of Multi-Messenger Astrophysics (ASTERICS Symposium), Groningen, Netherlands, 25-29 Mar 2019
4. Multi-messenger real-time analysis framework of the ANTARES/KM3NeT neutrino telescope, **D. Dornic**, First workshop of the Mexican-French LIA ERIDANUS, Toulouse, France, 3-6 Jun 2019
5. First real-time results and CCSN alert triggering with the KM3NeT neutrino telescopes, **M. Lincetto**, SNEWS 2.0: Supernova Neutrinos in the Multi-Messenger Era, Sudbury, Canada, 14-17 Jun 2019
6. Search for neutrino counterparts of cataloged gravitational-wave events detected by Advanced-LIGO and Virgo during run O2 with ANTARES, M. Colomer Molla, B. Baret, A. Coleiro, D. Dornic, T. Pradier, 36th International Cosmic Ray Conference (ICRC 2019), Madison, United States, 24 Jul - 1 Aug 2019
7. Ten years of multi-wavelength follow-up observations of ANTARES neutrino alerts, **D. Dornic**, M. Ageron, V. Bertin, J. Brunner, A. Coleiro, F. Schussler, D. Turpin, B. Vallage, 36th International Cosmic Ray Conference (ICRC 2019), Madison, United States, 24 Jul - 1 Aug 2019

8. KM3NeT/ORCA: status and prospects, **M. Perrin- Terrin**, The 21st International Workshop on Neutrinos from Accelerators (NUFACT2019), Daegu, Korea, 26-31 Aug 2019
9. Neutrino Oscillation measurements and BSM physics searches with Neutrino Telescopes in the Mediterranean, **P. Coyle**, The 21st International Workshop on Neutrinos from Accelerators (NUFACT2019), Daegu, Korea, 26-31 Aug 2019
10. Panorama of high-energy neutrino telescopes in 2030s, **D. Dornic**, Journée THESEUS France, Paris, France, 23 Sep 2019
11. Multi-messenger real-time analysis framework of the KM3NeT Telescope, **D. Dornic**, 3e atelier national Transient Sky 2020, Paris, France, 25-26 Sep 2019
12. Indirect search for Dark Matter with the ANTARES and KM3NeT deep sea neutrino telescopes, **V. Bertin**, 4th Uppsala workshop on Particle Physics with Neutrino Telescopes (PPNT19), Uppsala, Sweden, 7-9 Oct 2019
13. Dark matter capture by the Sun: revisiting velocity distribution uncertainties, **A. Nuñez**, E. Nezri, V. Bertin, 4th Uppsala workshop on Particle Physics with Neutrino Telescopes (PPNT19), Uppsala, Sweden, 7-9 Oct 2019
14. Revisiting Dark Matter velocity distribution uncertainties, **A. Nuñez**, E. Nezri, V. Bertin, IRN Terascale @ Bruxelles, Bruxelles, Belgium, 16-18 Oct 2019

2018

1. The SVOM mission, **D. Dornic**, Journées LSST-France, Marseille, France, 16-18 Jan 2018
2. KM3NeT and ORCA, **P. Coyle**, JINR Day in France, Paris, France, 15 Feb 2018
3. Vers une astronomie neutrino avec IceCube+ANTARES+KM3NeT, **D. Dornic**, Atelier de la communauté française de recherche sur le rayonnement cosmique [CFRCos], Paris, France, 26-28 Mar 2018
4. Status and physics prospect of ORCA/KM3NeT, **J. Brunner**, 11th FCPPL Workshop, Marseille, France, 22-25 Mai 2018
5. ANTARES and KM3NeT, **P. Coyle**, 20th International Symposium on Very High Energy Cosmic Ray Interactions, Nagoya, Japan, 21-25 Mai 2018
6. Towards neutrino astronomy with IceCube+ANTARES+KM3NeT, **V. Bertin**, 11th FCPPL Workshop, Marseille, France, 22-25 Mai 2018
7. KM3NeT: Neutrino oscillation and astroparticle research in the Mediterranean sea, **D. Zaborov**, Quarks 2018 - XXth International Seminar on High Energy Physics, Valday, Russia, 27 May - 02 Jun 2018

8. Status and physics prospect of ORCA/KM3NeT, **J. Brunner**, Advanced Workshop on Physics of Atmospheric Neutrinos - PANE 2018, Trieste, Italy, 28 May - 01 Jun 2018
9. Concluding remarks of PANE 2018 workshop, **P. Coyle**, Advanced Workshop on Physics of Atmospheric Neutrinos - PANE 2018, Trieste, Italy, 28 May - 01 Jun 2018
10. Neutrino astronomy : alerts and brokers, **D. Dornic**, Transient Sky 2020 National Workshop - 2nd Edition, Montpellier, France, 04-06 Jun 2018
11. Indirect search for Dark Matter with the ANTARES and KM3NeT deep sea neutrino telescopes, **V. Bertin**, The 14th international workshop on Dark Side of the Universe (DSU 2018), Annecy, France, 25-29 Jun 2018
12. Neutrino physics with KM3NeT/ORCA, **D. Zaborov**, NuFact 2018, 20th workshop on neutrinos from accelerators, Blacksburg, United States, 12-18 Aug 2018
13. Multi-messenger analysis with the ANTARES neutrino telescope, **D. Dornic**, 14th Rencontres of Vietnam: Very High Energy Phenomena in the Universe, Quy Nhon, Vietnam, 12-18 Aug 2018
14. KM3NeT/ORCA: Perspectives and multi-search potential of an underwater neutrino telescope, **A. Domi**, 14th Rencontres of Vietnam: Very High Energy Phenomena in the Universe, Quy Nhon, Vietnam, 12-18 Aug 2018
15. Testing simple dark matter phase space prediction methods on cosmological dynamic simulations of Miky-Way-like galaxies, **A. Nuñez**, T. Lacroix, J. Lavalle, P. Mollitor, E. Nezri, M. Stref, 2018 TeV Particles Astrophysics (TeVPA 2018), Berlin, Germany, 27-31 Aug 2018
16. Neutrino oscillations with ANTARES, **J. Brunner**, Neutrino Oscillation Workshop (NOW 2018), Ostuni, Italy, 9-16 Sep 2018
17. Des fonds marins à l'Univers lointain : un positionnement acoustique de précision pour d'une nouvelle astronomie !, **V. Bertin**, 12e Conférence technique interne iXblue (iXtech18), St-Germain-e-Laye, France, 27-28 Sep 2018
18. Particle Physics with ORCA, **A. Domi**, Very Large Volume Neutrino Telescopes (VLVnT 2018), Dubna, Russia, 2-4 Oct 2018
19. KM3NeT status, **P. Coyle**, Very Large Volume Neutrino Telescopes (VLVnT 2018), Dubna, Russia, 2-4 Oct 2018
20. A neutrino detector in the Mediterranean Sea as target for a neutrino beam, **J. Brunner**, Very Large Volume Neutrino Telescopes (VLVnT 2018), Dubna, Russia, 2-4 Oct 2018
21. Astrophysical uncertainties on Dark Matter Capture by the Sun and the connection with cosmological Simulations, **A. Nuñez**, 2nd GNN Workshop on Indirect Dark Matter Searches with Neutrino Telescopes (Dark Ghosts 2018), Bruxelles, Belgium, 13-14 Nov 2018

2017

1. KM3NeT/ORCA : Oscillation Research in the Abyss, **J. Brunner**, XVII International Workshop on Neutrino Telescopes, Venice, Italy, 13 Mar - 17 Mar 2017
2. Selected results of the ANTARES telescope and perspectives for KM3NeT, **D. Dornic**, 52nd Rencontres de Moriond - Very High Energy Phenomena in the Universe, La Thuile, Italy, 18-25 Mar 2017
3. KM3NeT : Astroparticle and Oscillation Research in the Abyss, **P. Coyle**, IceCube Particle Astrophysics Symposium (IPA 2017), Madison, United States, 8-10 May 2017
4. Discussion on neutrino alerts, **D. Dornic**, Transient Sky in 2020, Orsay, France, 20-22 Jun 2017
5. Multi-wavelength follow-up observations of ANTARES neutrino alerts, **D. Dornic**, M. Ageron, V. Bertin, J. Brunner, A. Mathieu, F. Schüssler, B. Vallage, S. Basa, 35th International Cosmic Ray Conference (ICRC2017), Busan, South Korea, 12 Jul - 20 Jul 2017
6. Time-dependant search of neutrino emission from X-ray and gamma-ray binaries using eight years of data of the ANTARES telescope, A. Sanchez-Losa, D. Dornic, A. Coleiro, 35th International Cosmic Ray Conference (ICRC2017), Busan, South Korea, 12 Jul - 20 Jul 2017
7. Search for a high-energy neutrino signal from Fast Radio Bursts with the ANTARES telescope, D. Turpin, D. Dornic, A. Coleiro, M. Sanguinetti, 35th International Cosmic Ray Conference (ICRC2017), Busan, South Korea, 12 Jul - 20 Jul 2017
8. The ANTARES neutrino alerts and the associated EM follow-up, **D. Dornic**, 2nd SVOM Scientific Workshop : Surveying the Fast Changing Multi-Wavelength Sky with SVOM, Qiannan, China, 24-28 Apr 2017
9. Dark Matter searches with Neutrino Telescopes, **J. Brunner**, XIII Rencontres du Vietnam : Exploring the Dark Universe, Quy Nhon, Vietnam, 23 Jul - 29 Jul 2017
10. Recent Results from the ANTARES Neutrino Telescope, **V. Bertin**, XV International Conference on Topics in Astroparticle and Underground Physic (TAUP 2017), Sudbury, Canada, 24 Jul - 28 Jul 2017
11. The KM3NeT neutrino telescope and the potential of a neutrino beam from Russia to the Mediterranean Sea, **D. Zaborov**, XVIII Lomonosov Conference on Elementary Particle Physics, Moscow, Russia, 24 Aug - 30 Aug 2017
12. Sensitivity of the ANTARES neutrino telescope to atmospheric neutrino oscillation parameters, **I. Salvadori**, 103e National Congress of the Italian Physical Society, Trento, Italy, 11 Sep - 15 Sep 2017

13. Neutrino emission from XRB and search with the ANTARES telescope, **D. Dornic**, From quiescent to outburst: when microquasars go wild, Porquerolles, France, 25-29 Sep 2017
14. Status of KM3NeT/ORCA, L. Quinn, GDR Neutrino meeting, Paris, France, 20-21 Nov 2017
15. Scientific potential of a neutrino beam from Protvino to ORCA (P2O), **D. Zaborov**, GDR Neutrino meeting, Paris, France, 20-21 Nov 2017
16. Indirect search for Dark Matter with the ANTARES deep sea neutrino telescope, **V. Bertin**, IRN Terascale @ Marseille, Marseille, France, 13-15 Dec 2017
17. Cosmological simulations of spiral galaxies : dark matter detection aspects, **A. Nuñez**, E. Nezri, V. Bertin, J. Lavalle, M. Stref, T. Lacroix, IRN Terascale @ Marseille, Marseille, France, 13-15 Dec 2017

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