

Published papers, with acknowledgement to ARC (as of 15/02/2022)

ARC members who belong to the LIGO-Virgo collaboration are contributors of the articles published by the LIGO-Virgo collaboration. However, because of the large number of Institutions involved in the collaborations (more than 100), it has been decided that in the acknowledgement only the Institutions that are supporting financially the detectors hardware are cited.

The list of these publications is available at <https://pnp.ligo.org/ppcomm/Papers.html>

LIGO/Virgo/KAGRA Collaboration papers where the contribution of ARC members, L2 line, has been important:

Searches for continuous gravitational waves from young supernova remnants in the early third observing run of Advanced LIGO and Virgo, R. Abbott et al 2021 ApJ 921 80

Constraints from LIGO O3 data on gravitational-wave emission due to r-modes in the glitching pulsar PSR J0537-6910, R. Abbott et al ApJ 922 71 (2021)

Gravitational-wave constraints on the equatorial ellipticity of millisecond pulsars, R. Abbott et al 2020 ApJL 902 L21

All-sky search for short gravitational-wave bursts in the third Advanced LIGO and Advanced Virgo run, Phys. Rev. D 104, 122004 (2021)

Search for Gravitational Waves Associated with Gamma-Ray Bursts Detected by Fermi and Swift During the LIGO-Virgo Run O3a, *Astrophys.J.* 915 (2021) 2, 86

ANTARES/KM3NeT Collaboration papers where the contribution of ARC members, L2 line, has been important:

KM3NeT/ARCA expectations in view of a novel multimessenger study of starburst galaxies A Marinelli, et al Journal of Instrumentation 16 (12), C120162021

Search for neutrinos from the tidal disruption events AT2019dsg and AT2019fdr with the ANTARES telescope
A Albert, et al, The Astrophysical Journal 920 (1), 5032021

The KM3NeT potential for the next core-collapse supernova observation with neutrinos
S Aiello, et al, The European Physical Journal C 81 (5), 1-19102021

ANTARES upper limits on the multi-TeV neutrino emission from the GRBs detected by IACTs A Albert, et al. Journal of Cosmology and Astroparticle Physics 2021 (03), 09232021

(L1) Gravitational Physics and Astrophysics

R. Ciancarella et al., *Constraining mirror dark matter inside neutron stars*, *Phys.Dark Univ.* 32 (2021) 100796.

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Glatzle, Martin; Graziani, Luca; Ciardi, Benedetta

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The REBELS ALMA Survey: cosmic dust temperature evolution out to $z \approx 7$

Sommovigo, L. and the REBELS collaboration

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“Characterization of the Sos Enattos site for the Einstein Telescope”

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M Carpinelli, S Cuccuru, M D’Ambrosio, R de Rosa, M Di Giovanni, D d’Urso, I

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A Seismological Study of the Sos Enattos Area—the Sardinia Candidate Site for the Einstein Telescope

Matteo Di Giovanni; Carlo Giunchi; Gilberto Saccorotti; Andrea Berbellini; Lapo Boschi; Marco Olivieri; Rosario De Rosa; Luca Naticchioni; Giacomo Oggiano; Massimo Carpinelli; Domenico D'Urso; Stefano Cuccuru; Valeria Sipala; Enrico Calloni; Luciano Di Fiore; Aniello Grado; Carlo Migoni; Alessandro Cardini; Federico Paoletti; Irene Fiori; Jan Harms; Ettore Majorana; Piero Rapagnani; Fulvio Ricci; Michele Punturo

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A new underground laboratory for exploring the deep universe: The design of a third generation of a gravitational wave observatory

L. Schiavinato, A. Mazzalai, G. Gemme, G. Losurdo, M. Punturo, A. Paoli, F. Ricci, E. Calloni, G. Oggiano, M. Carpinelli
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Study and experiment on the alternative technique of frequency-dependent squeezing generation with EPR entanglement for Virgo

M Bawaj, M Barsuglia, M Bazzan, E Calloni, G Ciani, L Conti, B D'Angelo, M De Laurentis, R De Rosa, S Di Pace, V Fafone, B Garaventa, G Gemme, A Gennai, L Giacoppo, J Harms I Khan, E Majorana, L Naticchioni, C Nguyen, D Passuello, G Prodi, F Ricci, A Rocchi, V Sequino, F Sorrentino, M Vardaro and JP Zendri

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