

Liste des publications

1. Publications internationales avec comité de lecture

- [1] “*Role of substrate and TiO₂ content in TiO₂:Ta₂O₅ coatings for gravitational wave detectors*”
O. Durante, V. Granata, M. Magnozzi, A. Amato, **C. Michel**, **L. Pinard**, **M. Granata**, M. Canepa, G. Carapella, F. Chiadini, R. De Simone, R. Fittipaldi, V. Fiumara, V. Pierro, I. M. Pinto, A. Vecchione, F. Bobba and C. Di Giorgio
Classical and Quantum Gravity 41 (2024) 025005 (14pp)
- [2] “*Search for Gravitational Waves Associated with Fast Radio Bursts Detected by CHIME/FRB during the LIGO–Virgo Observing Run O3a*”
R. Abbott et al. for the LSC collaboration, the Virgo collaboration (**J. Degallaix**, **D. Hofman**, **M. Granata**, **L. Mereni**, **C. Michel**, **L. Pinard**, **B. Sassolas**, **S. Sayah**)
The Astrophysical Journal, 955:155 (26pp), 2023
- [3] “*Population of Merging Compact Binaries Inferred Using Gravitational Waves through GWTC-3*”
R. Abbott et al. for the LSC collaboration, the Virgo collaboration (**J. Degallaix**, **D. Hofman**, **M. Granata**, **L. Mereni**, **C. Michel**, **L. Pinard**, **B. Sassolas**, **S. Sayah**)
Physical Review X 13, 011048 (2023)
- [4] “*Optical characterization of high performance mirrors based on cavity ringdown time measurements with 6 degrees of freedom mirror positioning*”
N. Gutierrez, **J. Degallaix**, **D. Hofman**, **C. Michel**, **L. Pinard**, J. Morville, R. Battesti, and G. Cagnoli
Review of Scientific Instruments 94, 105113 (2023)
- [5] “*Numerical modelling for retrieval of the coating thickness variations from wavefront errors measurements*”
M. Baron, **B. Sassolas**, **L. Pinard**, and **A. Ealet**
Optics Express Vol. 31, No. 20, 32968 (2023)
- [6] “*Detecting ultrathin ice on materials for optical coatings at cryogenic temperatures*”
M. Magnozzi, F. Bisio, G. Gemme, **M. Granata**, **C. Michel**, **L. Pinard** and M. Canepa
Journal of Physics D: Applied Physics 56, 475105 (2023)
- [7] “*Recent advances toward mesoscopic quantum optomechanics*”
M. Croquette, S. Deleglise, T. Kawasaki, K. Komori, M. Kuribayashi, A. Lartaux-Vollard, N. Matsumoto, Y. Michimura, M. Andia, N. Aritomi, R. Braive, T. Briant, S. Briaudeau, S. B. Cataño-Lopez, S. Chua, **J. Degallaix**, M. Fujimoto, K. Gerashchenko, F. Glotin, P. Gruning, K. Harada, A. Heidmann, **D. Hofman**, P.-E. Jacquet, T. Jacqmin, O. Kozlova, N. Leroy, V. Lorient, F. Loubar, T. Martel, R. Metzдорff, **C. Michel**, A. Mikami, L. Najera, L. Neuhaus, S. Otabe, **L. Pinard**, K. Suzuki, H. Takahashi, K. Takeda, Y. Tominaga, A. van de Walle, N. Yamamoto, K. Somiya, and P.-F. Cohadon
AVS Quantum Science 5, 014403 (2023)

- [8] “*Enhancing Titania-Tantala Amorphous Materials as High-Index Layers in Bragg Reflectors of Gravitational-Wave Detectors*”
A. Amato, M. Magnozzi, N. Shcheblanov, A. Lemaître, G. Cagnoli, **M. Granata**, **C. Michel**, G. Gemme, **L. Pinard**, and M. Canepa
Applied Optical Materials 1, 395-402 (2023)
- [9] “*Systematic error in the internal friction measurement of coatings for gravitational wave detectors*”
A. Amato, D. Lumaca, E. Cesarini, **M. Granata**, A. Lemaître, M. Lorenzini, C. Malhaire, **C. Michel**, F. Piergiovanni, **L. Pinard**, N. Shcheblanov and G. Cagnoli
Physical Review D 106, 082007 (2022)
- [10] “*Search for intermediate-mass black hole binaries in the third observing run of Advanced LIGO and Advanced Virgo*”
R. Abbott et al. for the LSC collaboration, the Virgo collaboration (**J. Degallaix**, **D. Hofman**, **M. Granata**, **L. Mereni**, **C. Michel**, **L. Pinard**, **B. Sassolas**, **S. Sayah**)
Astronomy Astrophysics, 659 A84 (2022)
- [11] “*Searches for Gravitational Waves from Known Pulsars at Two Harmonics in the Second and Third LIGO-Virgo Observing Runs*”
R. Abbott et al. for the LSC collaboration, the Virgo collaboration (**J. Degallaix**, **D. Hofman**, **M. Granata**, **L. Mereni**, **C. Michel**, **L. Pinard**, **B. Sassolas**, **S. Sayah**)
The Astrophysical Journal, 935:1 (2022) (33pp)
- [12] “*Argon and Other Defects in Amorphous SiO₂ Coatings for Gravitational-Wave Detectors*”
A. Paolone, E. Placidi, E. Stellino, M. Grazia Betti, E. Majorana, C. Mariani, A. Nucara, O. Palumbo, P. Postorino, M. Sbroscia, F. Trequattrini , **M. Granata**, **D. Hofman**, **C. Michel** , **L. Pinard**, A. Lemaître, N. Shcheblanov, G. Cagnoli and F. Ricci
Coatings 12, 1001 (2022)
- [13] “*All-sky search for gravitational wave emission from scalar boson clouds around spinning black holes in LIGO O3 data*”
R. Abbott et al. for the LSC collaboration, the Virgo collaboration (**J. Degallaix**, **D. Hofman**, **M. Granata**, **L. Mereni**, **C. Michel**, **L. Pinard**, **B. Sassolas**, **S. Sayah**)
Physical Review D 105, 102001 (2022)
- [14] “*All-sky, all-frequency directional search for persistent gravitational waves from Advanced LIGO’s and Advanced Virgo’s first three observing runs*”
R. Abbott et al. for the LSC collaboration, the Virgo collaboration (**J. Degallaix**, **D. Hofman**, **M. Granata**, **L. Mereni**, **C. Michel**, **L. Pinard**, **B. Sassolas**, **S. Sayah**)
Physical Review D 105, 102001 (2022)
- [15] “*Search for Gravitational Waves Associated with Gamma-Ray Bursts Detected by Fermi and Swift during the LIGO–Virgo Run O3b*”
R. Abbott et al. for the LSC collaboration, the Virgo collaboration (**J. Degallaix**, **D. Hofman**, **M. Granata**, **L. Mereni**, **C. Michel**, **L. Pinard**, **B. Sassolas**, **S. Sayah**)
The Astrophysical Journal, 928:186 (2022) (20pp)

- [16] “*Optical and Mechanical Properties of Ion-Beam-Sputtered MgF₂ Thin Films for Gravitational-Wave Interferometers*”
M. Granata, A. Amato, M. Bischi, M. Bazzan, G. Cagnoli, M. Canepa, M. Chicoine, A. Di Michele, G. Favaro, **D. Forest**, G. M. Guidi, G. Maggioni, F. Martelli, M. Menotta, M. Montani, F. Piergiovanni, and F. Schiettekatte
Physical Review Applied 17, 034058 (2022)
- [17] “*Constraints on dark photon dark matter using data from LIGO’s and Virgo’s third observing run*”
R. Abbott et al. for the LSC collaboration, the Virgo collaboration (**J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, L. Pinard, B. Sassolas, S. Sayah**)
Physical Review D 105, 063030 (2022)
- [18] “*Calibration of advanced Virgo and reconstruction of the detector strain $h(t)$ during the observing run O3*”
F. Arcenese et al. for the LSC collaboration, the Virgo collaboration (**J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, L. Pinard, B. Sassolas, S. Sayah**)
Classical and Quantum Gravity 39 (2022) 045006 (50pp)
- [19] “*Exploration of co-sputtered Ta₂O₅–ZrO₂ thin films for gravitational-wave detectors*”
M Abernathy, A Amato, A Ananyeva, S Angelova, B Baloukas, R Bassiri, G Billingsley, R Birney, G Cagnoli, M Canepa, **M Coulon, J Degallaix**, A Di Michele, M A Fazio, M M Fejer, **D Forest**, C Gier, **M Granata**, A M Gretarsson, E M Gretarsson, E Gustafson, E J Hough, M Irving, É Lalande, C Levesque, A W Lussier, A Markosyan, I W Martin, L Martinu, B Maynard, C S Menoni, **C Michel**, P G Murray, C Osthelder, S Penn, **L Pinard**, K Prasai, S Reid, R Robie, S Rowan, **B Sassolas**, F Schiettekatte, R Shink, S Tait, **J Teillon**, G Vajente, M Ward and L Yang
Classical and Quantum Gravity 38 (2021) 195021 (39pp)
- [20] “*Search for anisotropic gravitational-wave backgrounds using data from Advanced LIGO and Advanced Virgo’s first three observing runs*”
R. Abbott et al. for the LSC collaboration, the Virgo collaboration (**J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, L. Pinard, B. Sassolas, S. Sayah**)
Physical Review D 104, 022005 (2021)
- [21] “*Upper limits on the isotropic gravitational-wave background from Advanced LIGO and Advanced Virgo’s third observing run*”
R. Abbott et al. for the LSC collaboration, the Virgo collaboration (**J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, L. Pinard, B. Sassolas, S. Sayah**)
Physical Review D 104, 022004 (2021)
- [22] “*Tests of general relativity with binary black holes from the second LIGO-Virgo gravitational-wave transient catalog*”
R. Abbott et al. for the LSC collaboration, the Virgo collaboration (**J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, L. Pinard, B. Sassolas, S. Sayah**)
Physical Review D 103, 122002 (2021)
- [23] “*Observation of Gravitational Waves from Two Neutron Star–Black Hole Coalescences*”
R. Abbott et al. for the LSC collaboration, the Virgo collaboration (**J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, L. Pinard, B. Sassolas, S. Sayah**)
The Astrophysical Journal, 915:L5 (2021) (24pp)

- [24] “*Constraints on Cosmic Strings Using Data from the Third Advanced LIGO–Virgo Observing Run*”
R. Abbott et al. for the LSC collaboration, the Virgo collaboration (**J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, L. Pinard, B. Sassolas, S. Sayah**)
Physical Review Letters 126, 241102 (2021)
- [25] “*GWTC-2: Compact Binary Coalescences Observed by LIGO and Virgo during the First Half of the Third Observing Run*”
R. Abbott et al. for the LSC collaboration, the Virgo collaboration (**J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, L. Pinard, B. Sassolas, S. Sayah**)
Physical Review X 11, 021053 (2021)
- [26] “*Diving below the Spin-down Limit: Constraints on Gravitational Waves from the Energetic Young Pulsar PSR J0537-6910*”
R. Abbott et al. for the LSC collaboration, the Virgo collaboration (**J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, L. Pinard, B. Sassolas, S. Sayah**)
The Astrophysical Journal, 913:L27 (2021) (15pp)
- [27] “*Population Properties of Compact Objects from the Second LIGO–Virgo Gravitational-Wave Transient Catalog*”
R. Abbott et al. for the LSC collaboration, the Virgo collaboration (**J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, L. Pinard, B. Sassolas, S. Sayah**)
The Astrophysical Journal, 913:L7 (2021) (41pp)
- [28] “*Optical and mechanical properties of ion-beam-sputtered Nb₂O₅ and TiO₂-Nb₂O₅ thin films for gravitational-wave interferometers and an improved measurement of coating thermal noise in Advanced LIGO*”
A. Amato G. Cagnoli, **M. Granata, B. Sassolas, J. Degallaix, D. Forest, C. Michel, L. Pinard**,
Physical Review D 103, 072001 (2021)
- [29] “*Point defects in IBS coating for very low loss mirrors*”
S. Sayah, B. Sassolas, J. Degallaix, L. Pinard, C. Michel, V. Sordini, G. Cagnoli
Applied Optics Vol. 60, No. 14 (2021)
- [30] “*All-sky search in early O3 LIGO data for continuous gravitational-wave signals from unknown neutron stars in binary systems*”
R. Abbott et al. for the LSC collaboration, the Virgo collaboration (**J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, L. Pinard, B. Sassolas**)
Physical Review D 103, 064017 (2021)
- [31] “*A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo*”
B.P. Abbott et al. for the LSC collaboration, the Virgo collaboration (**J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, L. Pinard, B. Sassolas**)
The Astrophysical Journal, 909:218 (2021) (18pp)
- [32] “*Open data from the first and second observing runs of Advanced LIGO and Advanced Virgo*”
R. Abbott et al. for the LSC collaboration, the Virgo collaboration (**J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, L. Pinard, B. Sassolas**)
SoftwareX 13 (2021) 100658

- [33] “*Effects of the annealing of amorphous Ta₂O₅ coatings produced by ion beam sputtering concerning the effusion of argon and the chemical composition*”
A. Paolone, E. Placidi, E. Stellino, M.G. Betti, E. Majorana, C. Mariani, A. Nucara, O. Palumbo, P. Postorino, I. Rago, F. Trequattrini, **M. Granata, J. Teillon, D. Hofman, C. Michel**, A. Lemaitre, N. Shcheblanov, G. Cagnoli, F. Ricci
Journal of Non-Crystalline Solids 557 (2021)
- [34] “*Properties and Astrophysical Implications of the 150 M_⊙ Binary Black Hole Merger GW190521*”
R. Abbott et al. for the LSC collaboration, the Virgo collaboration (**J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, L. Pinard, B. Sassolas, S. Sayah**)
The astrophysical journal letters, 900:L13 (2020) (27pp)
- [35] “*GW190521: A Binary Black Hole Merger with a Total Mass of 150 M_⊙*”
R. Abbott et al. for the LSC collaboration, for the Virgo collaboration (**J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, L. Pinard, B. Sassolas, S. Sayah**)
Physical Review Letters 125, 101102 (2020)
- [36] “*A guide to LIGO–Virgo detector noise and extraction of transient gravitational-wave signals*”
B.P. Abbott et al. for the LSC collaboration, the Virgo collaboration (**J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, L. Pinard, B. Sassolas**)
Classical and Quantum Gravity 37 (2020) 055002 (54pp)
- [37] “*GW190412: Observation of a binary-black-hole coalescence with asymmetric masses*”
R. Abbott et al. for the LSC collaboration, the Virgo collaboration (**J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, L. Pinard, B. Sassolas, S. Sayah**)
Physical Review D 102 ; 043015 (2020)
- [38] “*Characterization of the Core Optics in Gravitationa Wave detectors : Case study of KAGRA Sapphire mirrors*”
E. Hirose, G. Billingsley, L. Zhang, H. Yamamoto, **L. Pinard, C. Michel, D. Forest**, B. Reichman and M. Gross
Physical Review Applied 14, 014021 (2020)
- [39] “*GW190814: Gravitational Waves from the Coalescence of a 23 Solar Mass Black Hole with a 2.6 Solar Mass Compact Object*”
R. Abbott et al. for the LSC collaboration, the Virgo collaboration (**J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, L. Pinard, B. Sassolas**)
The astrophysical journal letters, 896:L44 (2020) (20pp)
- [40] “*Optically targeted search for gravitational waves emitted by core-collapse supernovae during the first and second observing runs of Advanced LIGO and Avanced Virgo*”
B.P. Abbott et al. for the LSC collaboration, the Virgo collaboration (**J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, L. Pinard, B. Sassolas**)
Physical Review D 100 ; 084002 (2020)
- [41] “*Amorphous optical coatings of present gravitational-wave interferometers*”
M. Granata, A. Amato, **L. Balzarini**, M. Canepa, **J. Degallaix, D. Forest**, V. Dolique, **L. Mereni, C. Michel, L. Pinard, B. Sassolas, J. Teillon** and G. Cagnoli
Classical and Quantum Gravity 37 (2020) 095004 (20pp)

- [42] “GW190425: Observation of a Compact Binary Coalescence with Total Mass $\sim 3.4M_{\odot}$ ”
B.P. Abbott et al. for the LSC collaboration, the Virgo collaboration (**J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, L. Pinard, B. Sassolas**)
The astrophysical journal letters, 892:L3 (2020) (24pp)
- [43] “Observation of a Correlation between Internal friction and Urbach Energy in Amorphous Oxides Thin Films”
A. Amato, S. Terreni, **M. Granata, C. Michel, L. Pinard**, M. Canepa and G. Cagnoli
Scientific Report Nature, 10:1670, (2020)
- [44] “Progress in the measurement and reduction of thermal noise in optical coatings for gravitational-wave detectors”
M. Granata, A. Amato, G. Cagnoli, M. Coulon, J. Degallaix, D. Forest, L. Mereni, C. Michel, L. Pinard, B. Sassolas and J. Teillon
Applied Optics Vol.59 N°5, (2020) A229-A235
- [45] “Search for gravitational waves from Scorpius X-1 in the second Advanced LIGO observing run with improved hidden Markov model”
B.P. Abbott et al. for the LSC collaboration, the Virgo collaboration (**J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, L. Pinard, B. Sassolas**)
Physical Review D 100 ; 122002 (2019)
- [46] “Increasing the Astrophysical Reach of the Advanced Virgo Detector via the Application of Squeezed Vacuum States of Light”
F. Acernese et al. for, the Virgo collaboration (**J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, L. Pinard, B. Sassolas, S. Sayah**)
Physical Review Letters 123, 231108 (2019)
- [47] “Large and extremely low loss: the unique challenges of gravitational wave mirrors”
J. Degallaix, C. Michel, B. Sassolas, A. Allocca, G. Cagnoli, L. Balzarini, V. Dolique, R. Flaminio, D. Forest, M. Granata, B. Lagrange, N. Straniero, J. Teillon and L. Pinard
Journal of the Optical Society of America A, Vol 36 n°11, C85-C94 (2019)
- [48] “Tests of general relativity with the binary black hole signals from the LIGO-Virgo catalog GWTC-1”
B.P. Abbott et al. for the LSC collaboration, the Virgo collaboration (**A. Amato, J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, R. Pedurand, L. Pinard, B. Sassolas**)
Physical Review D 100 ; 104036 (2019)
- [49] “Effect of heating treatment and mixture on optical properties of coating materials used in gravitational-wave detectors”
A. Amato, S. Terreni, M. Granata, C. Michel, L. Pinard, G. Gemme, G. Cagnoli, M. Canepa
Journal of Vacuum Science Technology B, Vol 37 n°6 (2019)
- [50] “Search for Subsolar mass ultracompact binaries in Advanced LIGO’s second observing run”
B.P. Abbott et al. for the LSC collaboration, the Virgo collaboration (**A. Amato, J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, R. Pedurand, L. Pinard, B. Sassolas**)
Physical Review Letters 123, 161102 (2019)

- [51] “*Search for intermediate mass black hole binaries in the first and second observing runs of the Advanced LIGO and Virgo network*”
B.P. Abbott et al. for the LSC collaboration, the Virgo collaboration (**A. Amato, J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, R. Pedurand, L. Pinard, B. Sassolas**)
Physical Review D 100 ; 064064 (2019)
- [52] “*Binary Black Hole Population Properties Inferred from the First and Second Observing Runs of Advanced LIGO and Advanced Virgo*”
B.P. Abbott et al. for the LSC collaboration, the Virgo collaboration (**A. Amato, J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, R. Pedurand, L. Pinard, B. Sassolas**)
The astrophysical journal letters, 882:L24 (2019) (30pp)
- [53] “*Search for the isotropic stochastic background using data from Advanced LIGO’s second observing run*”
B.P. Abbott et al. for the LSC collaboration, the Virgo collaboration (**A. Amato, J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, R. Pedurand, L. Pinard, B. Sassolas**)
Physical Review D 100 ; 061101 (2019)
- [54] “*Directional limits on persistent gravitational waves using data from Advanced LIGO’s first two observing runs*”
B.P. Abbott et al. for the LSC collaboration, the Virgo collaboration (**A. Amato, J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, R. Pedurand, L. Pinard, B. Sassolas**)
Physical Review D 100 ; 062001 (2019)
- [55] “*Erratum: “Searches for Gravitational Waves from Known Pulsars at Two Harmonics in 2015–2017 LIGO Data” (2019, ApJ, 879, 10)*”
B.P. Abbott et al. for the LSC collaboration, the Virgo collaboration (**A. Amato, J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, R. Pedurand, L. Pinard, B. Sassolas**)
The astronomical journal, 882:73 (2019) (13pp)
- [56] “*GWTC-1: A Gravitational-Wave Transient Catalog of Compact Binary Mergers Observed by LIGO and Virgo during the First and Second Observing Runs*”
B.P. Abbott et al. for the LSC collaboration, the Virgo collaboration, Fermi Gamma-ray burst monitor and Integral (**A. Amato, J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, R. Pedurand, L. Pinard, B. Sassolas**)
Physical Review X 9 ; 031040 (2019)
- [57] “*All-sky search for continuous gravitational-waves from isolated neutron stars using Advanced LIGO O2 data*”
B.P. Abbott et al. for the LSC collaboration, the Virgo collaboration (**A. Amato, J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, R. Pedurand, L. Pinard, B. Sassolas**)
Physical Review D 100 ; 024004 (2019)
- [58] “*All-sky search for short gravitational-wave bursts in the second Advanced LIGO and Advanced Virgo run*”
B.P. Abbott et al. for the LSC collaboration, the Virgo collaboration (**A. Amato, J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, R. Pedurand, L. Pinard, B. Sassolas**)
Physical Review D 100 ; 024017 (2019)

- [59] “*Searches for Gravitational Waves from Known Pulsars at Two Harmonics in 2015–2017 LIGO Data*”
B.P. Abbott et al. for the LSC collaboration, the Virgo collaboration (**A. Amato, J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, R. Pedurand, L. Pinard, B. Sassolas**)
The astronomical journal, 879:10 (2019) (28pp)
- [60] “*Increasing the Astrophysical Reach of the Advanced Virgo Detector via the Application of Squeezed Vacuum States of Light*”
B.P. Abbott et al. for the LSC collaboration, the Virgo collaboration (**A. Amato, J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, R. Pedurand, L. Pinard, B. Sassolas**)
Physical Review Letters 123, 011102 (2019)
- [61] “*Optical properties of high-quality oxide coating materials used in gravitational-wave advanced detectors*”
A. Amato, S. Terreni, V. Dolique, D. Forest, G. Gemme, M. Granata, L. Mereni, C. Michel, L. Pinard, B. Sassolas, J. Teillon, G. Cagnoli, M. Canepa
JPhys Materials 2 (2019) 035004
- [62] “*All-sky search for long-duration gravitational-wave transients in the second Advanced LIGO observing run*”
B.P. Abbott et al. for the LSC collaboration, the Virgo collaboration (**A. Amato, J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, R. Pedurand, L. Pinard, B. Sassolas**)
Physical Review D 99 ; 104033 (2019)
- [63] “*First Measurement of the Hubble Constant from a Dark Standard Siren using the Dark Energy Survey Galaxies and the LIGO/Virgo Binary–Black-hole Merger GW170814*”
M. Soares-Santos et al. for DES collaboration, the LSC collaboration, the Virgo collaboration (**A. Amato, J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, R. Pedurand, L. Pinard, B. Sassolas**)
The astrophysical journal letters, 876:L7 (2019) (15pp)
- [64] “*Search for Gravitational Waves from a Long-lived Remnant of the Binary Neutron Star Merger GW170817*”
B.P. Abbott et al. for the LSC collaboration, the Virgo collaboration (**A. Amato, J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, R. Pedurand, L. Pinard, B. Sassolas**)
The astronomical journal, 875:160 (2019) (19pp)
- [65] “*Search for Transient Gravitational-wave Signals Associated with Magnetar Bursts during Advanced LIGO’s Second Observing Run*”
B.P. Abbott et al. for the LSC collaboration, the Virgo collaboration (**A. Amato, J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, R. Pedurand, L. Pinard, B. Sassolas**)
The astronomical journal, 877:163 (2019) (14pp)
- [66] “*Constraining the p-Mode–g-Mode Tidal Instability with GW170817*”
B.P. Abbott et al. for the LSC collaboration, the Virgo collaboration (**A. Amato, J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, R. Pedurand, L. Pinard, B. Sassolas**)
Physical Review Letters 122, 061104 (2019)

- [67] “*Searches for Continuous Gravitational Waves from 15 Supernova Remnants and Fomalhaut b with Advanced LIGO*”
B.P. Abbott et al. for the LSC collaboration, the Virgo collaboration (**A. Amato, J. Degallaix, D. Hofman, M. Granata, L. Mereni, C. Michel, R. Pedurand, L. Pinard, B. Sassolas**)
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