

Sample Bibliography *Riccardo DeSalvo*

Book

- *Optical Coatings and Thermal Noise in Precision Measurements*, Cambridge University Press

Peer Reviewed Articles

GW detection

- Abbott, Benjamin P., et al. "*Observation of gravitational waves from a binary black hole merger*" Physical review letters 116.6 (2016): 061102.
- Abbott, Benjamin P., et al. "*GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral*" Physical review letters, 119.16 (2017): 161101

Thermal noise in mirrors

- Villar Akira et al. (2010). *Measurement of thermal noise in multilayer coatings ...* PHYS.REV. D, vol. 81,: 1550-7998
- Tarallo Marco et al.. (2007). *Generation of a flat-top laser beam for....* APPLIED OPTICS, vol. 46, p. 6648-6654

Seismic attenuation systems

- Stochino Alberto, et al. (2009). *The Seismic Attenuation System (SAS)* N.I.M. , vol. 598, p. 737-753,
- Abbott B. P., et al., *LIGO: the Laser Interferometer*. REPORTS ON PROGRESS IN PHYSICS, vol. 72, (2009).
- Takahashi et al.. (2008). *Operational status of TAMA300*. CQG, vol. 25, ISSN: 0264-9381,
- Takamori A, et al. *Mirror suspension system for the TAMA SAS*. CQG, vol. 19, p. 1615-1621, (2002).
- Cella G, DeSalvo R, et al. *Seismic attenuation performance of the first ..* NIM, vol. 487, p. 652-660,
- Cella G, et al. *Monolithic geometric anti-spring blades*. NIM, vol. 540, p. 502-519,
- Losurdo G, et al., (1999). *An inverted pendulum preisolator ...* REV. OF SCI. INST., vol. 70, p. 2507-2515,
- Beccaria M, at al., (1997). *Extending the VIRGO gravitational wave ..* NIM , vol. 394, p. 397-408

Mechanical Noise in materials

- DeSalvo et al. *The role of Self-Organized Criticality in elasticity*. EPSJ+, vol. 126 (2011).
- DeSalvo, Riccardo. "*Unaccounted source of errors in measurements G.*" Physics Letters A 379.18: 1202-1205. (2015) A. O'Toole, et al., *Design and initial characterization of a compact...Accelerometer*. Rev. Sci. Instr 85, 075003 (2014). Virdone Nicole, (2008). *Extended-time-scale creep measurement ...* NIM , vol. 593, p. 597-607, ISSN: 0168-9002, Beccaria M, et al., (1998). *The creep problem in the VIRGO suspensions*. NIM , vol. 404, p. 455-469

Third generation G detectors

- Punturo M., et al., *The Einstein Telescope: a third-generation* CQG, vol. 27
- Hild S., et al. R (2010). *A xylophone configuration for a third-generation gravitational wave detector*. CQG, vol. 27
- Harms Jan, et al. (2009). *Simulation of underground gravity gradients from stochastic seismic*. PHYS.REV. D, vol. 80,
- Conforto G, DeSalvo R. *Proposal for lower frequency companions for the advances LIGO*. NIM , vol. 518, p. 228-232
- Kamp Carl et al. *Directional radiative cooling thermal compensation for gravitational* NIM, vol. 607, p. 530-537

Light detectors

- DeSalvo, R., et al. "*First results on the hybrid photodiode tube.*" NIM: 315.1-3 (1992): 375-384.
- Benetti P, et al. (1995). *Speed properties of the hybrid photodiode tube*. NIM, vol. 367, p. 384-387,
- R. DeSalvo, *Why people like the Hybrid Photo Diode*. Nucl. Instr. and Meth., A : 387, 92-96 (1997)

Detectors and experiments for neutral pion lifetime measurements

- Atherton, W., et al. *"Direct measurement of the lifetime of the neutral pion."* Physics Letters B 158.1 (1985): 81-84.

Detectors and experiments for proton elastic scattering and cross section

- Mondardini, Maria Rosa. Et al. *"A new detector for low-Pt physics."* NIM B-Proceedings Suppl. 25 (1992): 294-297.
- Avila C, et al. *The ratio, rho, of the real to the imaginary part of the (p)over-bar....* Phys Lett B, vol. 537, p. 41-44,
- Amos, N., et al. *"Drift-pots for small angle elastic scattering at the Fermilab collider."* NIM 252.2-3 (1986): 263-266.
- Avila C, et al. *A measurement of the proton-antiproton total cross.* PHYS.LETT.. B, vol. 445, p. 419-422 (1999).

Detectors for and measurements of quark mixing matrices

- Katayama, Nobuhiko, et al. *"Test installation of a 2.3 cm radius beam pipe and vertex"* NIM283.3 (1989): 539-543.
- Cassel, David G., et al. *"Design and construction of the CLEO II drift chamber."* NIM 252.2-3 (1986): 325-330.
- Kubota, Yuichi, et al. *"The CLEO II detector."* NIM 320.1-2 (1992): 66-113.
- Chen, W-Y., et al. *"Measurement of Ds decay modes."* Physics Letters B 226.1-2 (1989): 192-196.

Scintillating and Quartz fiber calorimetry

- Anzivino G, et al.(1995). *Quartz fibers: A new calorimetry for multi-TeV, very forward.* NUC. PH.. B, p. 168-172,
- DeSalvo, R., et al. *"A novel way of electron identification in calorimeters"*. NIM 279.3 (1989): 467-472.

Spectroscopy

- Campani, E., De Salvo, R. *"Measurement of the 6P 3/2 lifetime of cesium,* Lett. Nuo. Cim. (1980): 485-490.

Outreach

- Riccardo DeSalvo, *Time dependences of atmospheric Carbon dioxide fluxes* <http://arxiv.org/abs/1409.2854>

Reviews

- DeSalvo R: *Accelerometer Development for Use in Gravitational.* BUL. SEISM. SOC. OF A, vol. 99, p. 990-997, (2009).
- DeSalvo R, *Passive, Nonlinear, Mechanical Structures for Seismic Attenuation.* JCNLP, vol. 2, p. 290-298,
- DeSalvo R, *Why people like the Hybrid PhotoDiode.* NIM , vol. 387, p. 92-96, (1997).