Publication list

This list has been updated to the date of the 8th October 2024.

Total Number =238 including GCN, 98 refereed papers and a book, 46 are referred papers including the book as first author, 52 as a co-author with two as a shared first coauthor. Proceedings: 44; GCN:99. As a note, paper numbers 19, 25, 51 are in the top 1% most cited in the Web of Science, and number 50 is in the top 0.1% in the web of Science. H-index=39 and total citations=5163 according to NASA ADS ABS.

The citations follow the bibliography, where there is no citation indicated means 0 citation.

Referred Publication list as a lead author

1. Dainotti et al. 2024, "The largest GRB optical catalog with known redshift", MNRAS, tmp.1527D.
2. Dainotti et al. 2024, "GRBs as Distance Indicators by a Statistical Learning Approach", ApJL, 967, 2, id. L30.
3. Dainotti et al. 2024, "A new binning method to choose a standard set of Quasars", Physics of the Dark Universe, Vol. 44, article id. 101428. DOI: doi.org/10.1016/j.dark.2024.101428, https://arxiv.org/abs/2401.12847.
4. Dainotti et al. 2024, "The scavenger hunt for Quasar samples to be used as cosmological tools: similarities with Gamma-Ray Burst analysis of standard candles", Galaxies, Vol. 12, issue 1, p. 4. DOI:https://doi.org/10.3390/galaxies12010004.
5. Dainotti et al. 2024, "On the statistical assumption on the distance moduli of Supernovae Ia and its impact on the determination of cosmological parameters", Journal of High Energy Astrophysics, Vol. 41, p. 30-41, ISSN 2214-4048, https://doi.org/10.1016/j.jheap.2024.01.001.
6. Dainotti et al. 2024, "Inferring the redshift of more than 150 GRBs with a machine learning ensamble", ApJS, 271, 22. DOI: 10.48550/arXiv.2401.03589.
7. Dainotti et al. 2024, "Reduced uncertainties up to 43% on the Hubble constant and the matter density with the SNe Ia with a new statistical analysis, JHEAP, Vol. 41, pp. 30-41, ISSN 2214-4048, https://doi.org/10.1016/j.jheap.2024.01.001.
8. Dainotti et al. 2023, "A Stochastic Approach to Reconstruct Gamma-Ray-burst Light Curves", ApJS, 2023, Vol. 267, Issue 2, p 42. https://iopscience.iop.org/article/10.3847/1538-4365/acdd07, DOI: 10.3847/1538-4365/acdd07.
9. Dainotti et al. 2023, "Reducing the Uncertainty on the Hubble Constant up to 35% with an Improved Statistical Analysis: Different Best-fit Likelihoods for Type Ia

Supernovae, Baryon Acoustic Oscillations, Quasars, and Gamma-Ray Bursts", ApJ, 951, Vol. 1, Issue 1, id. 63, 24. DOI:10.3847/1538-4357/acd63f.

10. Dainotti et al. 2023, Quasars: Standard Candles up to z = 7.5 with the Precision of Supernovae Ia, ApJ, Volume 950, Issue 1, id. 45, 8, 10.3847/1538-4357/accea0.

11. Dainotti et al. 2023, "The Closure Relations in High-Energy Gamma-Ray Bursts detected by Fermi-LAT", Galaxies 2023, Vol. 11, 1, pp. 25. https://doi.org/10.3390/galaxies11010025.

12. Dainotti et al. 2023, "The gamma-ray bursts fundamental plane correlation as a cosmological tool", MNRAS, Vol. 518, 2, pp 2201-2240, https://ui.adsabs.harvard.edu/abs/2023MNRAS.518.2201D/abstract.

13. Dainotti et al. 2022, "The Closure Relations in Optical Afterglow of Gamma-Ray Bursts", ApJ, Vol. 940, Issue 2, Id. 169, pp. 14. https://ui.adsabs.harvard.edu/abs/2022ApJ...940..169D/abstract.

14. Dainotti et al. 2022, "Gamma-ray bursts, Supernovae Ia, and baryon acoustic oscillations: A binned cosmological analysis", PASJ, Vol. 74, Issue 5, pp. 1095-1113. https://ui.adsabs.harvard.edu/abs/2022PASJ. 74.1095D/abstract.

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20. Dainotti et al. 2021, "Accounting for Selection Bias and Redshift Evolution in GRB Radio Afterglow Data", Galaxies; Vol. 9, issue 4, pp. 95. https://ui.adsabs.harvard.edu/abs/2021Galax...9. 95D/abstract.

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27. Dainotti et al. 2020, The X-Ray “Fundamental Plane of the Platinum Sample, the Kilonovae, and the SNe Ib/c Associated with GRBs”, ApJ, Vol. 904, Issue 2, id.97, pp. 13. DOI: 10.3847/1538-4357/abbe8a.

28. Dainotti et al. 2018, “Gamma-ray Burst Prompt Correlations: Selection and Instrumental Effects. Publications of the Astronomical Society of the Pacific”, Vol. 130, Issue 987, pp. 051001. DOI: 10.1088/1538-3873/aaa8d7.

29. Dainotti et al. 2018, “Gamma-Ray Burst Prompt Correlations”. Advances in Astronomy, Vol. 2018, id.4969503.DOI: 10.1155/2018/4969503.

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44. Dainotti et al. 2008, "A time-luminosity correlation for γ-ray bursts in the X-rays", MNRAS: Letters, Vol. 391, Issue 1, pp. L79-L83 DOI: 10.1111/j.1745-3933.2008.00560.x.

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46. Dainotti, M.; 2019, "Gamma-ray Burst Correlations; Current status and open questions. Gamma-ray Burst Correlations; Current status and open questions, by Dainotti, Maria". ISBN: 978-0-7503-1573-9. IOP ebooks. Bristol, UK: IOP Publishing, 2019. DOI: 10.1088/2053-2563/aae15c.

Refereed Publications list as a co-author

Polarization from a Radially Stratified GRB Outflow

47. Polarization from a radially stratified GRB outflow, *Galaxies* **2024**, *12*(5), 60; Caligula Pedreira, Fraja, Galvan-Gamez, Di Chiara, Dainotti, Becerra, Veres, **https://doi.org/10.3390/galaxies12050060**

48. The Density and Ionization Profile of Optically Dark and High Redshift GRBs probed by X-ray Absorption, Eka Puspita Arumaningtyas, Hasan Al Rasyid, Maria Giovanna

Dainotti, Daisuke Yonetoku, accepted in Galaxies.
49. Revisiting the Concordance ΛCDM model using Gamma-Ray Bursts together with Supernovae Ia and Planck data, Adil, S. Dainotti, M. & Sen, Anjan, 2024, JCAP, accepted, [2405.01452] Revisiting the Concordance $Λ$CDM model using Gamma-Ray Bursts together with Supernovae Ia and Planck data (arxiv.org).
50. Colgáin, E. Ó.; et al. 2022, "Putting Flat ΛCDM In The (Redshift) Bin", eprint arXiv:2206.11447. DOI 10.48550/arXiv.2206.11447, Physics of the Dark Universe, 44, id.101464.
51. Montani, Carlevaro, Dainotti, "Slow-rolling scalar dynamics and as solution for the Hubble tension", Physics of the Dark Universe, 44, id.101486.
52. Petrosian & Dainotti, "Progenitors of Low-redshift Gamma-Ray Bursts", ApJL, Vol. 963, 12.
53. Rinaldi, Fraija, Dainotti, "Parameter inference of a state-of-the-art physical afterglow model for GRB 190114C.", Galaxies, 12, 1, 5.
54. Angulo et al. 2023, including Dainotti, "Machine-Learning Enhanced Photometric Analysis of the Extremely Bright GRB 210822A", MNRAS, 527, Issue 3, pp.8140-8150.
55. Fraija, N, Dainotti et al. 2023, "Microphysical parameter variation in gamma-ray burst stratified afterglows and closure relations: from sub-GeV to TeV observations", MNRAS, Vol. 527, Issue 2, pp.1884-1909. DOI: 10.1093/mnras/stad3272.
56. Fraija, N. et al. 2023, including Dainotti: "An explanation of GRB Fermi-LAT flares and high-energy photons in stratified afterglows", MNRAS, Vol 527, Issue 2, pp.1674-1704.
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61. Bargiacchi, Dainotti et al. 2023, "Gamma-Ray Bursts, Quasars, Baryonic Acoustic Oscillations, and Supernovae Ia: new statistical insights and cosmological constraints", MNRAS, Vol. 521, Issue 3, pp.3909-3924. DOI:0.1093/mnras/stad7631.
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Submitted or about to be submitted to referred journals

100. Neutrino Cosmology after DESI: tightest mass upper limits, preference for the normal ordering, and tension with terrestrial observations: Jiang et al. including Dainotti:

Citations:2. **10.48550/arXiv.2407.18047**

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102. Dainotti et al. 2023, "The closure relationships in multi-wavelengths", submitted to ApJ

103. Favale, Dainotti et al. 2023, "The GRB calibration with cosmic chronometers", submitted in A&A, https://doi.org/10.48550/arXiv.2402.13115. **Citations:5.**

104. Eka, Dainotti and Yonetoku, submitted to PASJ.

105. Eoin et al. "Does DESI 2024 Confirm ΛCDM?, ", submitted to PRL, **Citations:37.**

106. Bargiacchi, Dainotti & Capozziello, submitted to the New Astronomy Reviews.

107. Di Valentino et al. 2024, Tensions in Cosmology, about to be submitted to Physics of the Dark Universe

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109. Dainotti et al. "The redshift classifier", about to be submitted in ApJ

Proceedings and arxive

1) Manieri, V. including Dainotti, "The Wide-field Spectroscopic Telescope (WST) Science White Paper", **Citations:10.**

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