
Elenco di pubblicazioni – Sunny Vagnozzi

Il seguente elenco comprende sia pubblicazioni che preprints, aggiornato il 5 Gennaio 2024

Indicatori bibliometrici: 67 articoli (64 pubblicati/accettati per pubblicazione), 8501 citazioni, 133.5 citazioni medie/articolo pubblicato, indice $H=50$, indice $m \simeq 5.5$ (dedotto da INSPIRE).

Per una bibliografia continuamente aggiornata e maggiori informazioni bibliometriche, si consultino i miei profili su INSPIRE, ADS, e Google Scholar

Nota importante sull'ordine degli autori

L'ordine degli autori in fisica delle alte energie e gravitazione è convenzionalmente alfabetico, mentre in astrofisica è convenzionalmente basato sul contributo. La cosmologia è al confine fra questi due campi, il che implica che le due pratiche riguardo l'ordine degli autori sono spesso mescolate nei miei lavori. In casi rari, tutti gli autori hanno contribuito in maniera eguale al lavoro, il quale viene firmato alfabeticamente. Inoltre, diversi dei miei lavori (in particolare all'inizio della mia carriera) ricadono esclusivamente nei campi della fisica delle alte energie e della gravitazione, e quindi sono rigorosamente firmati alfabeticamente.

In quanto segue, gli articoli recanti l'asterisco* sono firmati alfabeticamente

1. L. Giani, C. Howlett, K. Said, T. Davis & **S. Vagnozzi**, “*An effective description of Laniakea and its backreaction: Impact on Cosmology and the local determination of the Hubble constant*”, accettato per pubblicazione presso JCAP [arXiv:2311.00215]
0 citazioni
2. Y.-D. Tsai, D. Farnocchia, M. Micheli, **S. Vagnozzi** & L. Visinelli, “*Constraints on fifth forces and ultralight dark matter from OSIRIS-REx target asteroid Bennu*”, in fase di revisione presso Nat. Commun. [arXiv:2309.13106]
3 citazioni
3. **S. Vagnozzi**, “*Seven hints that early-time new physics alone is not sufficient to solve the Hubble tension*”, Universe **9** (2023) 393 [arXiv:2308.16628], articolo speciale su invito
32 citazioni
4. L. A. Escamilla, W. Giarè, E. Di Valentino, R. C. Nunes & **S. Vagnozzi**, “*The state of the dark energy equation of state circa 2023*”, in fase di revisione presso JCAP [arXiv:2307.14802]
17 citazioni
- 5.* S. A. Adil, U. Mukhopadhyay, A. A. Sen & **S. Vagnozzi**, “*Dark energy in light of the early JWST observations: case for a negative cosmological constant?*”, JCAP **2310** (2023) 072 [arXiv:2307.12763]
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6. **S. Vagnozzi**, “*Inflationary interpretation of the stochastic gravitational wave background signal detected by pulsar timing array experiments*”, JHEAp **39** (2023) 81 [arXiv:2306.16912]
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7. M. Afrin, **S. Vagnozzi** & S. G. Ghosh, “*Tests of Loop Quantum Gravity from the Event Horizon Telescope results of Sgr A**”, Astrophys. J. **944** (2023) 149 [arXiv:2209.12584]
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8. **S. Vagnozzi** & A. Loeb, “*The challenge of ruling out inflation via the primordial graviton background*”, Astrophys. J. Lett. **939** (2022) L22 [arXiv:2208.14088]
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9. I. Tanseri, S. Hagstotz, **S. Vagnozzi**, E. Giusarma & K. Freese, “*Updated neutrino mass constraints from galaxy clustering and CMB lensing-galaxy cross-correlation measurements*”, *JHEAp* **36** (2022) 1 [arXiv:2207.01913]
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 10. A. Reeves, L. Herold, **S. Vagnozzi**, B. D. Sherwin & E. G. M. Ferreira, “*Restoring cosmological concordance with early dark energy and massive neutrinos?*”, *Mon. Not. Roy. Astron. Soc.* **520** (2023) 3688 [arXiv:2207.01501]
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 - 11.* **S. Vagnozzi** & L. Visinelli, “*Note on fundamental physics tests from black hole imaging: Comment on “Hunting for extra dimensions in the shadow of Sagittarius A*”*”, *Res. Notes AAS* **6** (2022) 106 [arXiv:2205.11314]
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 12. **S. Vagnozzi**, R. Roy, Y.-D. Tsai, L. Visinelli, M. Afrin, A. Allahyari, P. Bambhaniya, D. Dey, S. G. Ghosh, P. S. Joshi, K. Jusufi, M. Khodadi, R. Kumar Walia, A. Övgün & C. Bambi “*Horizon-scale tests of gravity theories and fundamental physics from the Event Horizon Telescope image of Sagittarius A**”, *Class. Quant. Grav.* **40** (2023) 165007 [arXiv:2205.07787]
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 - 13.* Y. Chen, R. Roy, **S. Vagnozzi**, & L. Visinelli, “*Superradiant evolution of the shadow and photon ring of Sgr A**”, *Phys. Rev. D* **106** (2022) 043021 [arXiv:2205.06238]
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 14. R. C. Nunes, **S. Vagnozzi**, S. Kumar, E. Di Valentino & O. Mena, “*New tests of dark sector interactions from the full-shape galaxy power spectrum*”, *Phys. Rev. D* **105** (2022) 123506 [arXiv:2203.08093]
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 15. F. Ferlito, **S. Vagnozzi**, D. F. Mota & M. Baldi, “*Cosmological direct detection of dark energy: non-linear structure formation signatures of dark energy scattering with visible matter*”, *Mon. Not. Roy. Astron. Soc.* **512** (2022) 1885 [arXiv:2201.04528]
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 - 16.* R. Roy, **S. Vagnozzi** & L. Visinelli, “*Superradiance evolution of black hole shadows revisited*”, *Phys. Rev. D* **105** (2022) 083002 [arXiv:2112.06932]
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 - 17.* M. Benetti, L. L. Graef & **S. Vagnozzi**, “*Primordial gravitational waves from NANOGrav: a broken power-law approach*”, *Phys. Rev. D* **105** (2022) 043520 [arXiv:2111.04758]
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 18. Y.-D. Tsai, Y. Wu, **S. Vagnozzi** & L. Visinelli, “*Novel constraints on fifth forces and ultralight dark sector with asteroidal data*”, *JCAP* **2304** (2023) 031 [arXiv:2107.04038]
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 - 19.* R. C. Nunes & **S. Vagnozzi**, “*Arbitrating the S_8 discrepancy with growth rate measurements from Redshift-Space Distortions*”, *Mon. Not. Roy. Astron. Soc.* **505** (2021) 5427 [arXiv:2106.01208]
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20. **S. Vagnozzi**, “*Consistency tests of Λ CDM from the early integrated Sachs-Wolfe effect: implications for early-time new physics and the Hubble tension*”, Phys. Rev. D **104** (2021) 063524 [arXiv:2105.10425]
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 21. **S. Vagnozzi**, F. Pacucci & A. Loeb, “*Implications for the Hubble tension from the ages of the oldest astrophysical objects*”, JHEAp **36** (2022) 27 [arXiv:2105.10421]
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 22. S. Dhawan, J. Alsing & **S. Vagnozzi**, “*Non-parametric spatial curvature inference using late-Universe cosmological probes*”, Mon. Not. Roy. Astron. Soc. Lett. **506** (2021) L1 [arXiv:2104.02485]
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 23. **S. Vagnozzi**, L. Visinelli, P. Brax, A.-C. Davis & J. Sakstein “*Direct detection of dark energy: the XENON1T excess and future prospects*”, Phys. Rev. D **104** (2021) 063023 [arXiv:2103.15834], vincitore del *Premio Buchalter per la Cosmologia 2021* (3° premio)
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 24. **S. Vagnozzi**, A. Loeb & M. Moresco, “*Eppur è piatto? The cosmic chronometers take on spatial curvature and cosmic concordance*”, Astrophys. J. **908** (2021) 84 [arXiv:2011.11645]
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 25. **S. Vagnozzi**, E. Di Valentino, S. Gariazzo, A. Melchiorri, O. Mena & J. Silk “*The galaxy power spectrum take on spatial curvature and cosmic concordance*”, Phys. Dark Univ. **33** (2021) 100851 [arXiv:2010.02230]
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 26. **S. Vagnozzi**, “*Implications of the NANOGraV results for inflation*”, Mon. Not. Roy. Astron. Soc. Lett. **502** (2021) L11 [arXiv:2009.13432]
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 27. M. Khodadi, A. Allahyari, **S. Vagnozzi** & D. F. Mota, “*Black holes with scalar hair in light of the Event Horizon Telescope*”, JCAP **2009** (2020) 026 [arXiv:2005.05992]
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 - 28.* E. Di Valentino, S. Gariazzo, O. Mena & **S. Vagnozzi**, “*Soundness of Dark Energy properties*”, JCAP **2007** (2020) 045 [arXiv:2005.02062]
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38. W. Yang, S. Pan, **S. Vagnozzi**, E. Di Valentino, D. F. Mota & S. Capozziello, “*Dawn of the dark: unified dark sectors and the EDGES Cosmic Dawn 21-cm signal*”, *JCAP* **1911** (2019) 044 [[arXiv:1907.05344](#)]
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- 39.* **S. Vagnozzi** & L. Visinelli, “*Hunting for extra dimensions in the shadow of M87**”, *Phys. Rev. D* **100** (2019) 024020 [[arXiv:1905.12421](#)]
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- 41.* C. Bambi, K. Freese, **S. Vagnozzi** & L. Visinelli, “*Testing the rotational nature of the supermassive object M87* from the circularity and size of its first image*”, *Phys. Rev. D* **100** (2019) 044057 [[arXiv:1904.12983](#)]
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- 42.* A. Casalino, M. Rinaldi, L. Sebastiani & **S. Vagnozzi**, “*Alive and well: mimetic gravity and a higher-order extension in light of GW170817*”, *Class. Quant. Grav.* **36** (2019) 017001 [[arXiv:1811.06830](#)]
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46. **S. Vagnozzi**, T. Brinckmann, M. Archidiacono, K. Freese, M. Gerbino, J. Lesgourgues & T. Sprenger, “*Bias due to neutrinos must not uncorrect’d go*”, JCAP **1809** (2018) 001 [arXiv:1807.04672]
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- 51.* J. Dutta, W. Khylllep, E. N. Saridakis, N. Tamanini & **S. Vagnozzi**, “*Cosmological dynamics of mimetic gravity*”, JCAP **1802** (2018) 041 [arXiv:1711.07290], vincitore del *India Top Cited Paper Award* 2021 (categoria Astronomy and Astrophysics)
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Ripartizione dell’impatto secondo la tradizionale classificazione di INSPIRE:

- 1 articolo rinomato (500+ citazioni)
- 7 articoli famosi (250-499 citazioni)
- 23 articoli molto ben noti (100-249 citazioni)
- 19 articoli ben noti (50-99 citazioni)

Altre opere accademiche

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2. **S. Vagnozzi**, “*Weigh them all! - Cosmological searches for the neutrino mass scale and mass ordering*”, tesi di dottorato presso il Dipartimento di Fisica dell’Università di Stoccolma (ISBN 978-91-7797-729-2), vincitore dello Springer Thesis Award e pubblicato nella serie *Springer Theses* (ISBN 978-3-030-53502-5) [arXiv:1907.08010]