

Dr. Natalie B. Hogg

Publications

- [1] **Natalie B. Hogg**, Pierre Fleury, Julien Larena and Matteo Martinelli, *Measuring line-of-sight shear with Einstein rings: a proof of concept*, [2210.07210](#).
- [2] Matteo Martinelli, Francesca Scarcella, **Natalie B. Hogg**, Bradley J. Kavanagh, Daniele Gaggero and Pierre Fleury, *Dancing in the dark: detecting a population of distant primordial black holes*, *Journal of Cosmology and Astroparticle Physics* (2022) 006 [[2205.02639](#)].
- [3] Fabrizio Renzi, **Natalie B. Hogg** and William Giarè, *The resilience of the Etherington–Hubble relation*, *Monthly Notices of the Royal Astronomical Society* (2022) 4004 [[2112.05701](#)].
- [4] **Natalie B. Hogg** and Marco Bruni, *Shan–Chen interacting vacuum cosmology*, *Monthly Notices of the Royal Astronomical Society* (2022) 4430 [[2109.08676](#)].
- [5] Fabrizio Renzi, **Natalie B. Hogg**, Matteo Martinelli and Savvas Nesseris, *Strongly lensed supernovae as a self-sufficient probe of the distance duality relation*, *Physics of the Dark Universe* (2021) 100824 [[2010.04155](#)].
- [6] **Natalie B. Hogg**, Matteo Martinelli and Savvas Nesseris, *Constraints on the distance duality relation with standard sirens*, *Journal of Cosmology and Astroparticle Physics* (2020) 019 [[2007.14335](#)].
- [7] **Natalie B. Hogg**, Marco Bruni, Robert Crittenden, Matteo Martinelli and Simone Peirone, *Latest evidence for a late time vacuum–geodesic CDM interaction*, *Physics of the Dark Universe* (2020) 100583 [[2002.10449](#)].
- [8] Matteo Martinelli, **Natalie B. Hogg**, Simone Peirone, Marco Bruni and David Wands, *Constraints on the interacting vacuum–geodesic CDM scenario*, *Monthly Notices of the Royal Astronomical Society* (2019) 3423 [[1902.10694](#)].

White papers

I collected the data for Figure 12 and contributed to the text of the astrostatistics section (in particular section 11.5) of the EuCAPT white paper “[Opportunities and Challenges for Theoretical Astroparticle Physics in the Next Decade](#)”, Alves Batista et al., 2021.

I am a signatory of the Snowmass 2022 white paper “[Cosmology intertwined: A review of the particle physics, astrophysics, and cosmology associated with the cosmological tensions and anomalies](#)”, Abdalla et al., 2022.

Bibliometrics

- Total citations: 171
- Mean citations: 24.4
- h-index: 6

Numbers from [Inspire-HEP](#), for published papers with fewer than ten authors.