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Full publication list

Peer-reviewed journals

 2025, L Palaversa, Z. Ivezic, N. Caplar, K. Mrakovcic, B. Abel, O. Razim, F. atkovic, C. Yablonski, T. Saric, T. Jurkic, S. Campos, M. DeLucchi, D. Jones, K. Malanchev, A. Malz, S. McGuire, M. Juric

PhotoD with LSST: Stellar Photometric Distances Out to the Edge of the Galaxy, AJ, 2025 doi: 10.3847/1538-3881/ada3c2

- 2024, K. G. Iyer, J. S. Speagle, N. Caplar, J. C. Forbes, E. Gawiser, J. Leja, S. Tacchella Stochastic Modelling of Star Formation Histories III. Constraints from Physically-Motivated Gaussian Processes, ApJ, 2024 doi:10.3847/1538-4357/acff64
- 2023, C. Burke, Y. Shen, X. Liu, P. Natarajan, N. Caplar, J. Bellovary, Z. Wang Dwarf AGNs from Variability for the Origins of Seeds (DAVOS): Intermediate-mass black hole demographics from optical synoptic surveys, MNRAS, 2023 doi: 10.1093/mnras/stac2478
- 2022, A. B. Kovacevic, V. Radovic, I. Dragana, [and 22 others, including N. Caplar]
 The LSST era of supermassive black holes accretion-disk reverberation mapping, APJS, 2022 doi:10.3847/1538-4365/ac88ce
- 5. 2021, A. Kovacevic, D. Ilic, L. Popovic, V. Radovic, I. Jankov, I. Yoon, **N. Caplar**, I. Cvorovic-Hajdinjak, S. Smic

On possible proxies of AGN light-curves cadence selection in future time domain surveys, MNRAS, 2021

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- 2020, K. G. Iyer, S. Tacchella, S. Genel, C. C. Hayward, L. Hernquist, A. M. Brooks, N. Caplar, R. Dave, B. Diemer, J. C. Forbes, E. Gawsier, R. S. Somerville, T. K. Starkenburg The Diversity and Variability of Star Formation Histories in Models of Galaxy Evolution, MNRAS, 2020
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- 7. 2020, S. Tacchella, J. C. Forbes **N. Caplar**Stochastic modelling of star-formation histories II: star-formation variability from molecular clouds and gas inflow, MNRAS, 2020, 497, 698T doi.org/10.1093/mnras/staa1838

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8. 2020, I. Delvecchio, E. Daddi, J. Mullaney, E. Bernhard, L. Grimmett, R. Carraro, A. Cimatti, G. Zamorani, N. Caplar, D. Elbaz, G. Rodighiero

The evolving AGN duty cycle in galaxies since z ~ 3 as encoded in the X-ray luminosity function,

ApJ, 2020, 892, 17D doi.org/10.3847/1538-4357/ab789c

 2020, N. Caplar, T. Penna, S. Johnson, J. Greene Nonstationarity of AGN variability: the only way to go is down!, ApJL, 2020, 889L, 29C doi.org/10.3847/2041-8213/ab6a11

10. 2019, (corresponding author) L. Sartori, K. Schawinski, B. Trakhtenbrot, N. Caplar, E. Treister, C. Zhang

A forward modelling approach to AGN variability – method description and early applications, ApJ, $2019,\,883,\,139S$

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11. 2019, N. Caplar, S. Tacchella

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14. 2017, N. Caplar, S. J. Lilly, B. Trakhtenbrot

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15. 2017, A. Weigel, K. Schawinski, **N. Caplar**, A. Carpineti, R. Hart, S. Kaviraj, W. Keel, S. Kruk, C. Lintott, R. Nichol, B. Simmons, R. Smethurst

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- 2017, A. Weigel, K. Schawinski, N. Caplar, O. I. Wong, T. Ezequiel, B. Trakhtenbrot AGN and their host galaxies in the local Universe: Two mass-independent Eddington ratio distribution functions characterize black hole growth, ApJ, 2017, 845, 134W doi.org/10.3847/1538-4357/aa803b
- 17. 2016, **N. Caplar**, S. Tacchella, S. Birrer

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Generalized models of unification of dark matter and dark energy, Phys. Rev. D, 2013, 87, 023510 doi.org/110.1103/PhysRevD.87.023510

Conference proceedings

- 2024, N. Caplar, W. Beebe, D. Branton, S. Campos, A. Connolly, M. DeLucchi, D. Jones, M. Juric, J. Kubica, K. Malanchev, R. Mandelbaum, S. McGuire
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 Proceedings of XXXIV Astronomical Data Analysis Software & Systems (ADASS) conference,
 November 10-14 2024, Valletta, Malta; 10.48550/arXiv.2501.02103
- 2. 2022, N. Caplar, R. Lupton, J. E. Gunn, H. Siddiqui, P. Price, C. Loomis, A. L. Fur, J. E. Meyers Prime focus spectrograph (PFS) for the Subaru Telescope: 2D modeling of the point spread function Proc. SPIE 12184, Ground-based and Airborne Instrumentation for Astronomy IX, 1218470 (29 August 2022); doi.org/10.1117/12.2629364
- 3. 2022, Shian-Yu Wang, Masahiko Kimura, Chi-Huang Yan, [and 29 others, including **N. Caplar**] Prime focus spectrograph (PFS) for the Subaru Telescope: the prime focus instrument Proc. SPIE 12184, Ground-based and Airborne Instrumentation for Astronomy IX, 121846R (29 August 2022); doi.org/10.1117/12.2629098
- 4. 2022, K. Breivik, A. J. Connolly, K. E. S Ford, [and 94 others, including **N. Caplar**] From Data to Software to Science with the Rubin Observatory LSST https://arxiv.org/abs/2208.02781
- 5. 2018, T. Naoyuki, T. Naruhisa, A. Shimono, [and 111 others, including **N. Caplar**] Prime Focus Spectrograph (PFS) for the Subaru telescope: ongoing integration and future plans, Proceedings of the SPIE, Volume 10702, id. 107021C 12 pp.
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