

Keith Horne: Refereed Publications

Submitted:

494. “TOI-2015 b: a mini-Neptune in strong gravitational interaction with an outer non-transiting planet”
K.Barkaoui, et al. (202?). *A&A*, submitted (07 Nov 2024).
493. “Estimating Masses of Supermassive Black Holes in Active Galactic Nuclei from the H α Emission Line”
E.Dalla Bontà, B.M.Peterson, C.J.Grier, et al. (202?). *A&A*, submitted (25 Oct 2024).
492. “Testing X-ray Reprocessing and Mapping the Soft Excess of NGC 7469 with NICER”
E.R.Partington, E.M.Cackett, R.Edelson, **K.Horne**, J.A.Miller, A.J.Barth, J.Gelbord, J.V.Hernández Santisteban (202?) *ApJ*, submitted (21 Oct 2024).
491. “Testing disc reprocessing models for AGN optical variability by comparison of X-ray and optical power spectra of NGC 4395”
M.W.J.Beard, I.M.McHardy, **K.Horne**, E.M.Cackett, F.Vincentelli, J.V.Hernandez Santisteban, J.Miller, V.S.Dhillon, J.H.Knapen, S.P.Littlefair, D.Kynoch, E.Breedt, Y.Shen, J.Gelbord (202?). *MNRAS*, submitted (08 Oct 2024)
490. “Constraining atmospheric composition from the outflow: helium observations reveal the fundamental properties of two planets straddling the radius gap”
M.Zhang, et al. (202?). *AJ*, submitted (31 Aug 2024).
489. “Understanding the Broad-line Region of Active Galactic Nuclei with Photoionization. I. the Moderate-Accretion Regime”
Q.Wu, Y.Shen, H.Guo, S.F.Anderson, W.N.Brandt, C.J.Grier, P.B.Hall, L.C.Ho, Y.Homayouni, **K.Horne**, J.I-H.Li, D.P.Schneider (200?). *ApJ*, submitted (1 July 2024).
488. “Accretion disc reverberation mapping of the quasar 3C 273.”
J.P.Thorne, H.Landt, J.Huang, J.V.Hernández Santisteban, **K.Horne**, E.M.Cackett, H.Winkler, D.Sanmartin (202?). *MNRAS*, submitted (28 Jun 2024).
487. “Echo Mapping of the Black Hole Accretion Flow in NGC 7469.”
R.Prince, J.V.Hernández Santisteban, **K.Horne**, J.Gelbord, I.McHardy, R.Edelson, et al. (202?). *MNRAS*, submitted (18 May 2024).
486. “The TESS-Keck Survey XXI: 13 New Planets and Homogeneous Properties for 21 Subgiant Systems”
A.Chontos, et al. (202?) *ApJ*, submitted (09 Feb 2024).

In Press:

485. “Connecting the X-ray/UV Variability of Fairall 9 with NICER: A Possible Warm Corona.”
E.R.Partington, E.M.Cackett, R.Edelson, **K.Horne**, J.Gelbord, E.Kara, C.Malacaria, J.A.Miller, J.F.Steiner, A.Sanna (202?). *ApJ*, in press (28 Oct 2024).
484. “AGN STORM 2: X. The origin of the interband continuum delays in Mrk 817”
H.Netzer, M.R.Goad, A.J.Barth, E.M.Cackett, **K.Horne**, C.Hu, E.Kara, K.T.Korista, G.A.Kriss, C.Lewin, J.Montano, et al. (202?). *ApJ*, in press (26 Sep 2024).
483. “The SDSS-V Black Hole Mapper Reverberation Mapping Project: A Kinematically Variable Broad-Line Region and Consequences for Masses of Luminous Quasars”

L.Fries, J.Trump, **K.Horne**, M.C.Davis, C.J.Grier, Y.Shen, et al. (202?). ApJ, in press (18 Sep 2024).

Published:

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482. “High-quality Extragalactic Legacy-field Monitoring (HELM) with DECam”
M-Y.Zhuang, Q.Yang, Y.Shen, et al. (2024) ApJS, 274, 42.
481. “AGN STORM 2. VII. A Frequency-resolved Map of the Accretion Disk in Mrk 817: Simultaneous X-ray Reverberation and UVOIR Disk Reprocessing Time Lags”
C.Lewin, E.Kara, A.J.Barth, E.M.Cackett, G.De Rosa, Y.Homayouni, **K.Horne**, G.A.Kriss, H.Landt, J.Gelbord, J.Montano, et al. (2024). ApJ 974, 271.
480. “AGN STORM 2: IX. Studying the Dynamics of the Ionized Obscurer in Mrk 817 with High-resolution X-ray Spectroscopy.”
F.Zaidouni, E.Kara, P.Kosec, M.Mehdipour, D.Rogantini, G.A.Kriss, E.Behar, J.Kaastra, A.J.Barth, E.M.Cackett, G. De Rosa, Y.Homayouni, **K.Horne**, H.Landt, et al. (2024). ApJ, 973, 152.
479. “Intensive broadband reverberation mapping of Fairall 9 with 1.8 years of daily Swift monitoring.”
R.Edelson, B.M.Peterson, J.Gelbord, **K.Horne**, M.Goad, I.McHardy, S.Vaughan, M.Vestergaard (2024). ApJ 973, 152.
478. “AGN STORM 2. VIII. Investigating the Narrow Absorption Lines in Mrk 817 Using HST-COS Observations”
M.Dehghanian, et al. (2024). ApJ, 972, 141.
477. “Surviving in the Hot-Neptune Desert: The Discovery of the Ultra-Hot Neptune TOI-3261b”
E.Nabbie, C.X.Huang, J.Burt, et al. (2024). AJ 168, 132.
476. “Digging deeper into the dense Galactic globular cluster Terzan 5 with Electron-Multiplying CCDs. Variable star detection and new discoveries.”
R.Figuera Jaimes, M.Catelan, **K.Horne**, J.Skottfelt, C.Snodgrass, M.Dominik, U.G.Jorgensen, J.Southworth, M.Hundertmark, P.Longa-Peña, S.Sajadian, J.Tregolan-Reed, T.C.Hinse, et al. (2024). A&A 689, 108.
475. “TESS Hunt for Young and Maturing Exoplanets (THYME) X: a two-planet system in the 210 Myr MELANGE-5 Association.”
P.C.Thao, et al. (2024). AJ 168, 41.
474. “Migration and Evolution of giant ExoPlanets (MEEP) I: Nine Newly Confirmed Hot Jupiters from the TESS Mission”
J.Schulte, et al. (2024). ApJ 168, 32.
473. “TOI-4336 A b: A temperate sub-Neptune ripe for atmospheric characterization in a nearby triple M-dwarf system.”
M.Timmermans, et al. (2024). A&A 687, 48.
472. “ROME/REA: Three-year Tri-color Timeseries Photometry of the Galactic Bulge.”
R.A.Street, E.Bachelet, Y.Tsapras, M.P.G.Hundertmark, V.Bozza, D.M.Bramich, A.Cassan, M.Dominik, R.Figuera Jaimes, **K.Horne**, S.Mao, A.Saha, J.Wambsganss, W.Zang (2024). PASP 136, 064501.
471. “The Sloan Digital Sky Survey Reverberation Mapping Project: Key Results.”

- Y.Shen, C.J.Grier, **K.Horne**, et al. (2024). *ApJS*, 272, 26.
470. “The Discovery and Follow-up of Four Transiting Short-Period Sub-Neptunes Orbiting M dwarfs”
Y.Hori, et al. (2024). *AJ* 167, 233.
469. “Identification of the Top TESS Objects of Interest for Atmospheric Characterization of Transiting Exoplanets with JWST”
B.J.Hord, et al. (2024). *AJ* 167, 233.
468. “LHS 475 b: A Potential Venus Analog Orbiting a Nearby M Dwarf”
K.Ment, et al. (2024) *AJ*, 167, 197.
467. “TOI-663: A newly discovered multi-planetary system with three transiting mini-Neptunes orbiting an early M star.”
M.Cointepas, et al. (2024). *A&A* 685, 19.
466. “VaTEST III: Validation of 9 super-Earths from TESS Data.”
P.Mistry, et al. (2024). *PASA*, 41, 30.
465. “The first spectroscopic IR reverberation programme on Mrk 509”
J.A.J.Mitchell, M.J.Ward, D.Kynoch, J.V.Hernández Santisteban, **K.Horne**, et al. (2024). *MNRAS* 529, 4824.
464. “Intensive Swift and LCO monitoring of PG 1302-102: Active Galactic Nucleus Disk Reverberation Mapping of a Supermassive Black Hole Binary Candidate.”
T.Liu, R.Edelson, J.V.Hernández Santisteban, E.Kara, J.Montano, J.Gelbord, **K.Horne** A.J.Barth, E.M.Cackett, D.L.Kaplan (2024). *ApJ*, 964, 167.
463. “AGN STORM 2. V. Anomalous Behavior of the CIV Light Curve in Mrk 817.”
Y.Homayouni, G.A.Kriss, G.De Rosa, R.Plesha, E.M.Cackett, M.R.Goad, K.Korista, **K.Horne**, T.Fischer, T.Waters, et al. (2024). *ApJ* 963, 123.
462. “TOI-2266 b: A keystone super-Earth at the edge of the M dwarf radius valley.”
H.Parviainen, F.Murgas, E.Esparza-Borges, A.Peláez-Torres, E.Palle, et al. (2024) *A&A* 683, 170.
461. “Reevaluating LSST’s Capability for Time Delay Measurements in Quasar Accretion Disks.”
F.Pozo Nuñez, B.Czerny, S.Panda, A.Kovacevic, N.Brandt **K.Horne**, LSST AGN Science Collaboration (2024) *RNAAS*, 8, 47.
460. “AGN STORM 2. VI. Mapping Temperature Fluctuations in the Accretion Disk of Mrk 817.”
J.M.Neustadt, C.S.Kochanek, J.Montano, J.Gelbord, A.J.Barth, G.A.Kriss, E.M.Cackett, **K.Horne**, E.A.Kara, H.Landt, H.Netzer, et al. (2024) *ApJ* 961, 219.
459. “The Sloan Digital Sky Survey Reverberation Mapping Project: Investigation of Continuum Lag Dependence on Broad-Line Contamination and Quasar Properties.”
H.W.Sharp, Y.Homayouni, J.R.Trump, S.F.Anderson, R.J.Assef, W.N.Brandt, M.C.Davis, L.B.Fries, C.J.Grier, P.B.Hall, **K.Horne**, A.M.Koekemoer, M.L.Martínez-Aldama, D.M.Menezes, T.Pena, C.Ricci, D.P.Schneider, Y.Shen, B.Trakhtenbrot (2024) *ApJ*, 961, 93.
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458. “AGN STORM 2. IV. Swift X-ray and ultraviolet/optical monitoring of Mrk 817”

- E.M.Cackett, J.Gelbord, A.J.Barth, G.De Rosa, R.Edelson, M.R.Goad, Y.Homayouni, **K.Horne** E.A.Kara, G.A.Kriss, K.T.Korista, H.Landt, R.Plesha et al. (2023). ApJ 958, 195.
457. “Supermassive Black Holes with High Accretion Rates in Active Galactic Nuclei. XIII. Ultraviolet Time Lag of H β emission in Mrk 142.”
V.C.Khatu, S.C.Gallagher, **K.Horne**, E.M.Cackett, C.Hu, S.Pasquini, P.Hall, J-M.Wang, et al. (2023). ApJ 958, 127.
456. “Validating AU Microscopii d with Transit Timing Variations”
J.M.Wittrock, et al. (2023). AJ 166, 232.
455. “TESS Spots a Super-Puff: The Remarkably Low Density of TOI-1420b”
S.Yoshida, et al. (2023). AJ 166, 181.
454. “TOI 4201 b and TOI 5344 b: Discovery of Two Transiting Giant Planets Around M Dwarf Stars and Revised Parameters for Three Others”
J.Hartman, G.A.Bakos, et al. (2023). AJ 166, 163.
453. “TOI-908: a planet at the edge of the Neptune desert transiting a G-type star.”
F.Hawthorn, D.Bayliss, D.J.Armstrong, et al. (2023). MNRAS 524, 3877.
452. “Continuum Reverberation Mapping of Mrk 876 Over Three Years With Remote Robotic Observatories.”
J.Miller, E.M.Cackett, M.R.Goad, **K.Horne**, A.J.Barth, E.Romero-Colmenero, M.Fausnaugh, J.Gelbord, K.T.Korista, H.Landt, T.Treu, H.Winkler (2023). ApJ 953, 137.
451. “Testing Super-Eddington Accretion onto a Supermassive Black Hole: Reverberation Mapping of PG 1119+120.”
F.R.Donnan, J.V.Hernández Santisteban, **K.Horne** et al. (2023). MNRAS 523, 545.
450. “TOI-1130: A photodynamical analysis of a hot Jupiter in resonance with an inner low-mass planet.”
J.Korth, et al. (2023). A&A, 657, 115.
449. “Gravitationally localised states of two neutral fermions interacting with a Higgs field”
P.E.D.Leith, A.D.Leggat, C.A.Hooley, **K.Horne**, D.G.Dritschel (2023). Phys.Rev.D, 107, 106020.
448. “A temperate Earth-sized planet with tidal heating transiting an M6 star”
M.S.Peterson, B.Benneke, K.Collins, et al. (2023). Nature 617, 701.
447. “AGN STORM 2. II. Ultraviolet Observations of Mrk 817 with the Cosmic Origins Spectrograph on the Hubble Space Telescope”
Y.Homayouni, G.De Rosa, R.Plesha, G.A.Kriss, A.J.Barth, E.M.Cackett, **K.Horne**, E.A.Kara, H.Landt, et al. (2023) ApJ 948, 85.
446. “The SDSS-V Black Hole Mapper Reverberation Mapping Project: Unusual Broad-Line Variability in a Luminous Quasar.”
L.B.Fries, J.R.Trump, M.C.Davis, et al. (2023). ApJ 948, 5.
445. “The evolution of the UV/optical lag spectrum of NGC 7469 seen by the Liverpool Telescope.”
F.M.Vincentelli, M.Beard, I.M.McHardy, E.Cackett, **K.Horne**, M.Pahari (2023). AN 344, e20230018.
444. “Revisiting Emission-Line Measurement Methods for Narrow-Line Active Galactic Nuclei.”

V.C.Khatu, S.C.Gallagher, **K.Horne**, et al. (2023). PASP 135, 4504.

443. “TOI-836: A super-Earth and mini-Neptune transiting a nearby K dwarf.”
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442. “UV/Optical disk reverberation lags despite a faint X-ray corona in the AGN Mrk 335.”
E.Kara, A.J.Barth, E.M.Cackett, J.Gelbord, J.Montano, Y.-R.Li, L.Santana, **K.Horne** et al. (2023) ApJ 947, 62.
441. “AGN STORM 2. III. A NICER view of the variable X-ray obscurer in Mrk 817.”
E.Partington, E.M.Cackett, E.Kara, G.A.Kriss, A.J.Barth, G.De Rosa, Y.Homayouni, **K.Horne**, H.Landt, et al. (2023). ApJ 947, 2.
440. “TOI-1695 b: A Water World Orbiting an Early-M Dwarf in the Planet Radius Valley”
C.Cherubim, R.Cloutier, D.Charbonneau, et al. (2023). AJ 165, 167.
439. “First detection of the outer edge of an AGN accretion disc: Very fast multi-band optical variability of NGC 4395 with GTC/HiPERCAM and LT/IO:O.”
I.M.McHardy, M.Beard, E.Breidt, J.H.Knapen, F.M.Vincentelli, M.Veresvarska, V.Dhillon, T.R.Marsh, S.P.Littlefair, **K.Horne** R.Glew, M.R.Goad, E.Kammoun, D.Emmanoulopoulos (2023). MNRAS 519, 3366.
438. “TOI-3235 b: A Transiting Giant Planet around an M4 Dwarf Star”
M.J.Hobson, et al. (2023). ApJL, 946, 4.
437. “A Complex Dust Morphology in the High-luminosity AGN Mrk 876.”
H.Landt, J.A.J.Mitchell, M.J.Ward, P.Mercatoris, J.-U.Pott, **K.Horne**, J.V.Hernández Santisteban, D.Malhotra, E.M.Cackett, M.R.Goad, E.Romero-Colmenero, H.Winkler (2023). ApJ 945, 62.
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D.A.Starkey, J.Huang, **K.Horne**, D.N.C.Lin (2023). MNRAS 519, 2754.

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435. “TOI-2196 b: Rare planet in the hot Neptune desert transiting a G-type star.”
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434. “MOA-2019-BLG-008Lb: a new microlensing detection of an object at the planet/brown dwarf boundary.”
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K.C.Sahu, et al. (2022). ApJ 933, 83.
432. “Transit Timing Variations for AU Microscopii b and c”
J.M.Wittrock, et al. (2022). AJ 164, 27.
431. “The luminosity-dependent contribution from the broad line region to the wavelength-dependent lags in Mrk 110.”
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430. “Dust and the intrinsic spectral index of quasar variations: hints of finite stress at the innermost stable circular orbit.”
J.R.Weaver, **K.Horne** (2022). MNRAS, 512, 899.
429. “The Lick AGN Monitoring Project 2016: Dynamical Modeling of Velocity-Resolved H β Lags in Luminous Seyfert Galaxies.”

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428. “A second planet transiting LTT 1445A and a determination of the masses of both worlds.”
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427. “The LHS 1678 System: Two Earth-Sized Transiting Planets and an Astrometric Companion Orbiting an M Dwarf Near the Convective Boundary at 20 pc”
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426. “A pair of sub-Neptunes transiting the bright K-dwarf TOI-1064 characterised with CHEOPS”
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425. “Multi-wavelength Optical and NIR Variability Analysis of the Blazar PKS 0027-426.”
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424. “The Paschen Jump as a Diagnostic of the Diffuse Nebular Continuum Emission in Active Galactic Nuclei”
H.Guo, A.J.Barth, K.T.Korista, M.R.Goad, E.M.Cackett, et al. (2022). ApJ 927, 60.
423. “The Sloan Digital Sky Survey Reverberation Mapping Project: UV-Optical Accretion Disk Measurements with Hubble Space Telescope.”
Y.Homayouni, M.R.Sturm, J.R.Trump, **K.Horne**, C.J.Grier, Y.Shen, et al. (2022). ApJ 926, 225.
422. “The Lick AGN Monitoring Project 2016: Velocity-Resolved H β Lags in Luminous Seyfert Galaxies.”
V.U, A.J.Barth, H.A.Vogler, H.Guo, T.Treu, et al. (2022). ApJ 925, 52.
421. “The Great Slump: Mrk 926 reveals discrete and varying Balmer line satellite components during a drastic phase of decline.”
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420. “Bayesian Analysis of Quasar Lightcurves with a Running Optimal Average: New Time Delay measurements of COSMOGRAIL Gravitationally Lensed Quasars.”
F.R.Donnan, **K.Horne**, J.V.Hernández Santisteban (2021). MNRAS 508, 5449.
419. “AGN STORM 2. I. First results: A Change in the Weather of Mrk 817.”
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417. “A characteristic optical variability timescale in astrophysical accretion disks.”
C.J.Burke, Y.Shen, O.Blaes, C.Gammie, **K.Horne**, Y.-F.Jiang, X.Liu, I.McHardy, C.W.Morgan, S.Scaringi Q.Yang. (2021). Science, 373, 789.
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414. “On the multi-wavelength variability of Mrk 110: Two components acting at different time-scales.”

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413. “Dynamical Modeling of the C IV Broad Line Region of the $z = 2.805$ Multiply Imaged Quasar SDSS J2222+2745.”
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410. “Space Telescope and Optical Reverberation Mapping Project. IX. Velocity-Delay Maps for Broad Emission Lines in NGC 5548”
K.Horne, et al. (2021). ApJ 907, 76.
409. The Sloan Digital Sky Survey Reverberation Mapping Project: The M_{BH} -Host Relations at $0.2 < z < 0.6$ from Reverberation Mapping and Hubble Space Telescope Imaging
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408. “Intensive disc-reverberation mapping of Fairall 9: first year of Swift & LCO monitoring”
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407. “The Tidal Disruption Event AT 2018hyz I: Double-peaked emission lines and a flat Balmer decrement”
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405. The Sloan Digital Sky Survey Reverberation Mapping Project: How Broad Emission Line Widths Change When Luminosity Changes
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404. “Infinite-redshift localised states of Dirac fermions under Einsteinian gravity.”
D.Bakucz Canario, S. Lloyd, **K.Horne**, C.A.Hooley (2020). Phys.Rev.D 102, 4049.
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P.Williams, A.Pancoast, T.Treu, B.J.Brewer, B.M.Peterson, A.J.Varth, M.A.Malkan, G.De Rosa, **K.Horne**, et al. (2020). ApJ 902, 74.
402. “Robotic Reverberation Mapping of of the Seyfert 1 Galaxy 3C 120.”
M.S.Hlabathe, D.A.Starkey, **K.Horne**, E.Romero-Colmenero, S.M.Crawford, S.Valenti, H.Winkler, A.J.Barth, C.A.Onken, D.J.Sand, T.Treu, A.Diamond-Stanic, C.Villforth (2020). MNRAS 497, 2910.
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400. “The Sloan Digital Sky Survey Reverberation Mapping Project: Mg II Lag Results from Four Years of Monitoring.”
Y.Homayouni, J.R.Trump, C.J.Grier, **K.Horne**, Y.Shen, et al. (2020) ApJ 901, 55.
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G.Fonseca Alvarez, J.R.Trump, Y.Homayouni, C.J.Grier, Y.Shen, **K.Horne**, J.I-H.Li, W.N.Brandt, L.C.Ho, B.M.Peterson, D.P.Schneider (2020). ApJ 899, 73.
398. “Space Telescope and Optical Reverberation Mapping Project. XI. Disk-wind characteristics and contributions to the very broad emission lines of NGC 5548.”
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397. “Supermassive Black Holes with High Accretion Rates in Active Galactic Nuclei. XI. Accretion Disk Reverberation Mapping of Mrk 142.”
E.M.Cackett, J.Gelbord, Y.-R.Li, **K.Horne**, J-M.Wang, A.J.Barth, et al. (2020). ApJ 896, 1.
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395. “Evidence for variability time-scale dependent UV/X-ray delay in Seyfert 1 AGN NGC 7469”
M.Pahari, I.M.McHardy, F.Vicentelli, E.Cackett, B.M.Peterson M.Goad, K.Gültekin, **K.Horne** (2020). MNRAS 494, 4057.
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