

HET Publication Report

HET Board Meeting

4/5 June 2020

Zoom Land

Executive Summary

- There are now 410 peer-reviewed HET publications
 - Fifteen papers published in 2019
 - As of 22 May, nine published papers in 2020
- HET papers have 28229 citations
 - Average of 69, median of 38 citations per paper
 - H-number of 90
 - 76 papers have ≥ 100 citations; 170 have ≥ 50 cites
- Wide angle surveys account for 27% of papers and 35% of citations.
- Synoptic (e.g., planet searches) and Target of Opportunity (e.g., supernovae and γ -ray bursts) programs have produced 46% of the papers and 47% of the citations.
- Listing of the HET papers (with ADS links) is given at
<http://personal.psu.edu/dps7/hetpapers.html>

HET Program Classification

Code	Type of Program	Examples
1	ToO	Supernovae, Gamma-ray Bursts
2	Synoptic	Exoplanets, Eclipsing Binaries
3	One or Two Objects	Halo of NGC 821
4	Narrow-angle	HDF, Virgo Cluster
5	Wide-angle	Blazar Survey
6	HET Technical	HET Queue
7	HETDEX Theory	Dark Energy with BAO
8	Other	HET Optics

Programs also broken down into “Dark Time”, “Light Time”, and “Other”.

Peer-reviewed Publications

- There are now 410 journal papers that either use HET data or (nine cases) use the HET as the motivation for the paper (e.g., technical papers, theoretical studies).
- Except for 2005, approximately 22 HET papers were published each year since 2002 through the shutdown. A record 44 papers were published in 2012.
- In 2019 a total of fifteen HET papers appeared; nine have been published to date in 2019.
- Each HET partner has published at least 14 papers using HET data.
- Nineteen papers have been published from NOAO time.
- A total of 28 SDSS SNe papers have appeared in print. (The final data release paper appeared in early 2018).
- Nineteen publications with new instrumentation (LRS2/HPF).

A listing of the HET papers (with ADS links) is given at
<http://personal.psu.edu/dps7/hetpapers.html>

Citations to Peer-reviewed Publications

- The 410 HET papers have garnered 28229 citations for an average of 68.9 per paper (median number is 38).
- The HET's H-number is now 90.
- The number of citations ranges from 0 to 1120. Fourteen papers have one or zero citations; 170 have 50 or more citations.
- Approximately 35% of the HET citations are produced by “Wide angle” surveys (the primary science program for the “SST”). This fraction continues to slowly decrease.
- The four most cited Wide Angle Survey papers have 423, 519, 656, and 678 citations.
- “Dark Time” projects have average higher citation rates (86) than “Light Time” programs (47). The 2:1 ratio has remained reasonably constant over time, although it has slowly begun to decrease.
- The synoptic programs (primarily planet searches) are a significant component of both the number of publications and citations (top four papers have 247, 251, 306, and 394 citations).
- “Target of Opportunity” impact: Top four ToO papers have 356, 401, 545, and 1120 citations.
- The SDSS Supernova Survey (HET played key role in obtaining spectra of the faintest targets) produced an average of 145 citations per paper, as well as the highest-cited work (1120 citations from 2014 publication).

Summary of HET Publications May 2020

Year	Papers	Total	Total Citations	Average Citations
2000	9	9	578	64.22
2001	13	22	1337	102.85
2002	10	32	1044	104.40
2003	20	52	1634	81.70
2004	21	73	1528	72.76
2005	7	80	635	90.71
2006	21	101	1649	78.52
2007	21	122	1983	94.43
2008	24	146	2813	117.21
2009	26	172	2833	108.96
2010	33	205	2405	72.88
2011	26	231	2134	82.08
2012	44	275	2894	65.77
2013	23	298	700	30.43
2014	24	322	2078	86.58
2015	28	350	966	34.50
2016	19	369	581	30.58
2017	8	377	116	14.50
2018	9	386	221	24.56
2019	15	401	87	5.80
2020	9	410	13	1.44
Total	410		28229	68.85

Summary of Program Classes

Code	Class	Papers	Total Citations	Average Citations
1	ToO	79	7477	94.65
2	Synoptic	110	5828	52.98
3	Single Object	65	2666	41.02
4	Pencil Beam	35	2148	61.37
5	Wide Angle	109	9822	90.11
6	Technical	7	231	33.00
7	HETDEX	3	42	14.00
8	Other	2	15	7.50

Summary of Dark/Light Time

Code	Time	Papers	Total Citations	Average Citations
1	Dark	235	20095	85.51
2	Light	166	7882	47.48
3	Other	9	252	28.00

HET Publications Sorted by Journal

Papers	Average Citations	Journal
74	79.19	The Astronomical Journal
167	67.26	The Astrophysical Journal
32	56.97	The Astrophysical Journal (Letters)
13	45.92	The Publications of the A.S.P.
18	125.33	The Astrophysical Journal Supplement Series
8	221.62	Nature
1	229.00	Science
41	32.12	M.N.R.A.S.
2	30.00	M.N.R.A.S. (Letters)
44	63.32	Astronomy and Astrophysics
5	32.60	Astronomy and Astrophysics (Letters)
1	16.00	J.C.A.P.
1	94.00	Optics Express
1	4.00	Astronomische Nachrichten
1	1.00	J.A.T.I.S.
1	18.00	Optica

HET Publications Sorted by Instrument

Code	Instrument	Papers	Total Citations	Average Citations
1	None	6	222	37.00
2	LRS	226	19925	88.16
3	MRS	1	18	18.00
4	HRS	156	7838	50.24
5	UFOE	2	111	55.50
6	LRS2	13	87	6.69
7	HPF	6	28	4.67

“Hot Papers” (2017-2020)

(124) The Data Release of the Sloan Digital Sky Survey-II Supernova Survey. Sako, M., et al. 2018, PASP

(33) CARMENES Input Catalog of M Dwarfs. III. Rotation and Activity from High Resolution Spectroscopic Observations. Jeffers, S., et al. 2018, A&A

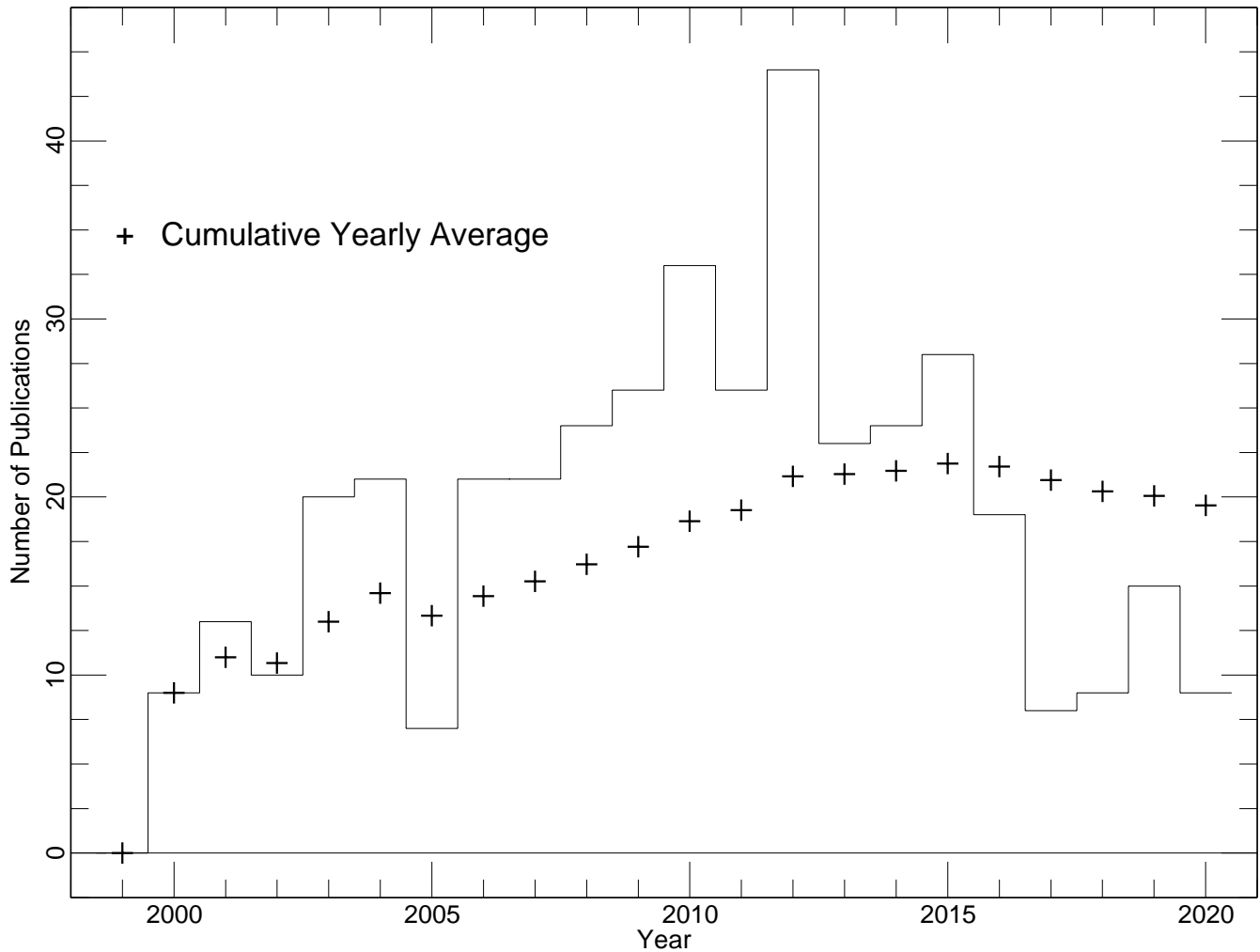
(32) A Large Systematic Search for Close Supermassive Binary and Rapidly Recoiling Black Holes. Runnoe, J., et al. 2017, MNRAS

(30) A Survey for New Members of the Taurus Star-Forming Region with SDSS. Luhman, K., et al. 2017, AJ

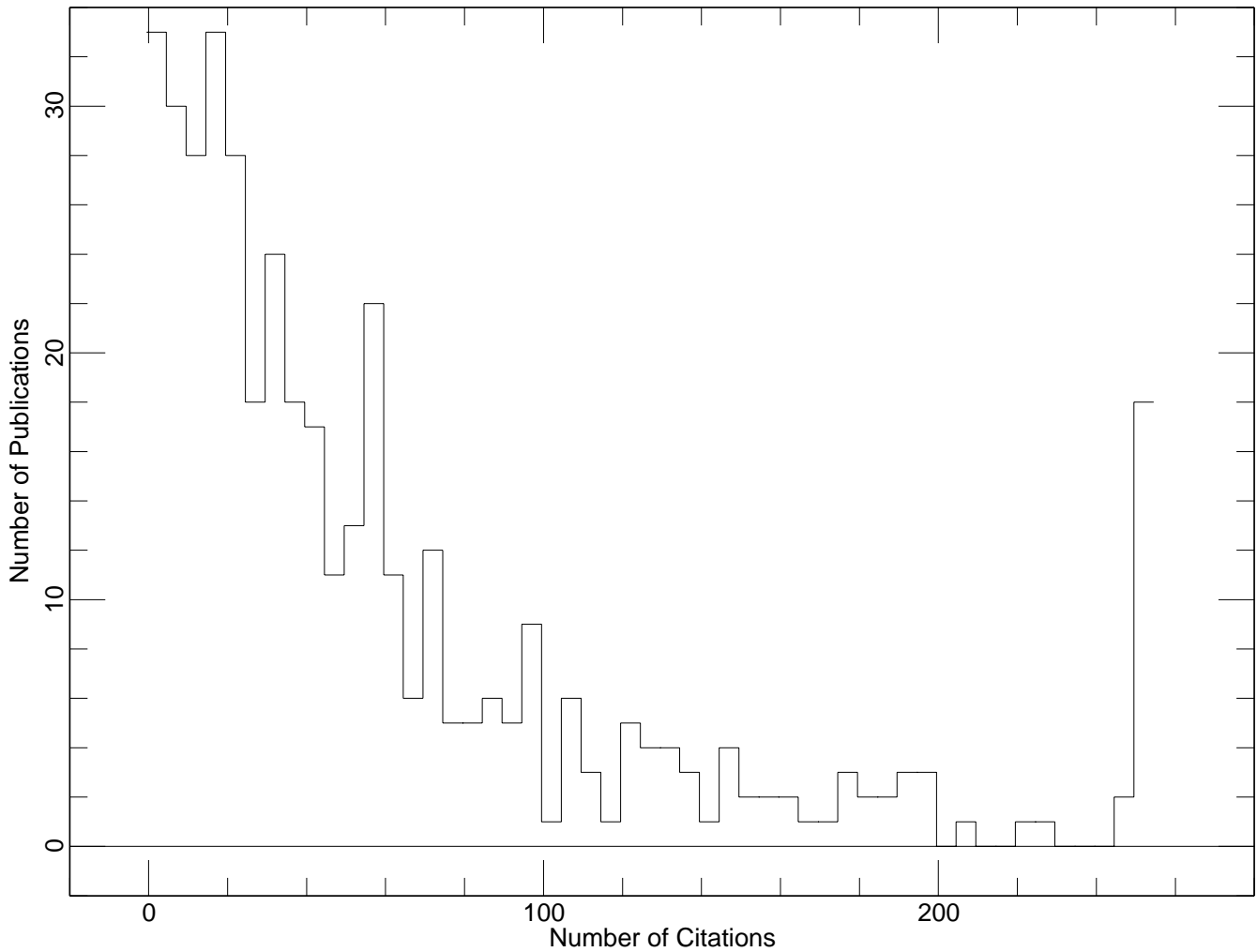
(21) Breaking the Habit: The Peculiar 2016 Eruption of the Unique Recurrent Nova. Henze, M., et al. 2018, ApJ

(20) Search for Giant Planets in M67 IV. Survey Results. Brucalassi, A., et al. 2017, A&A

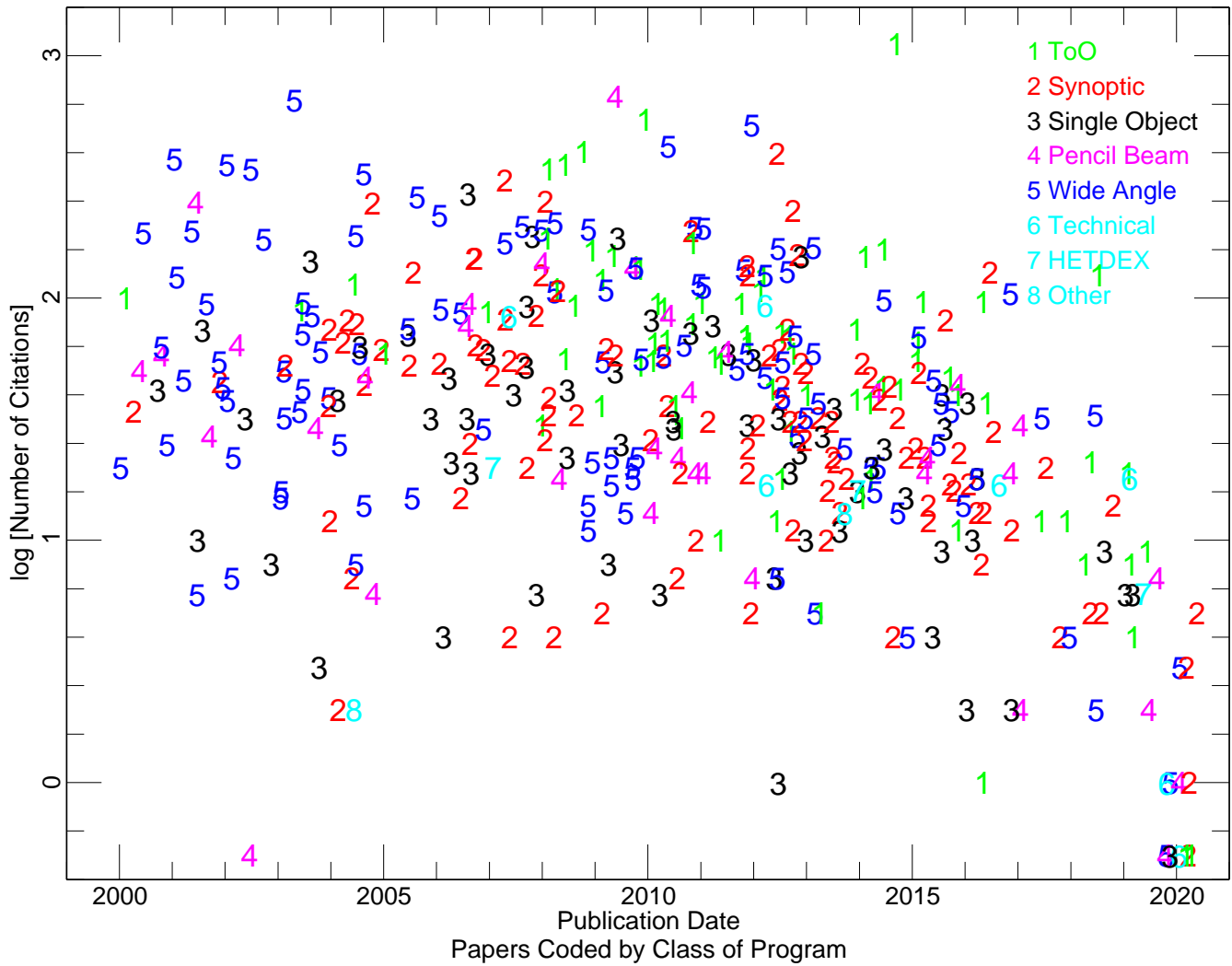
(19) Photometric and Spectroscopic Properties of Type Ia Supernova 2018oh. Li, W., et al. 2019, ApJ



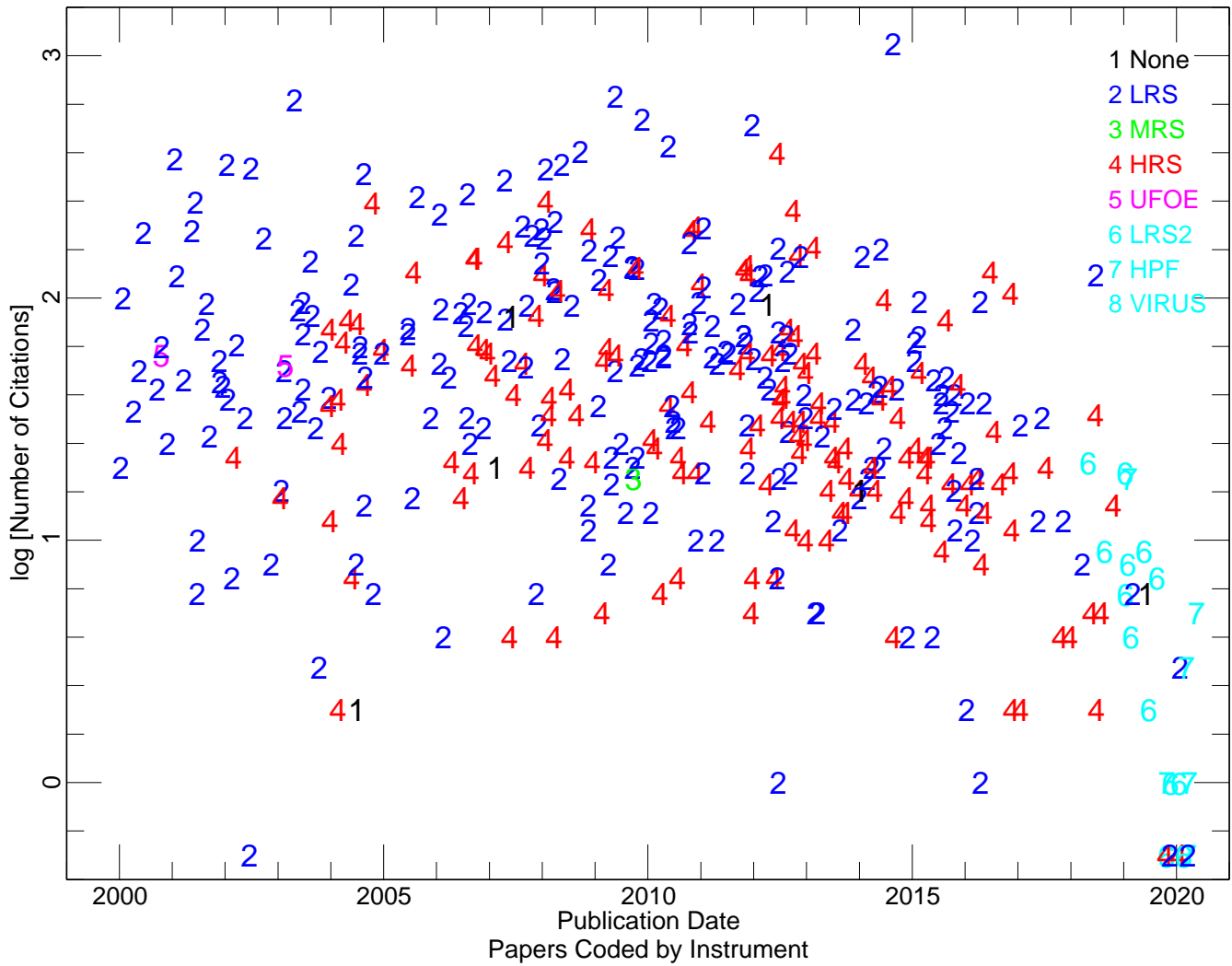
The number of HET publications each year (histogram) and the cumulative annual average of the annual number of publications (plus signs). A total of 410 HET papers have been published since the appearance of the first work in January 2000. Fifteen papers appeared in 2018; nine have been published in 2019 to date.



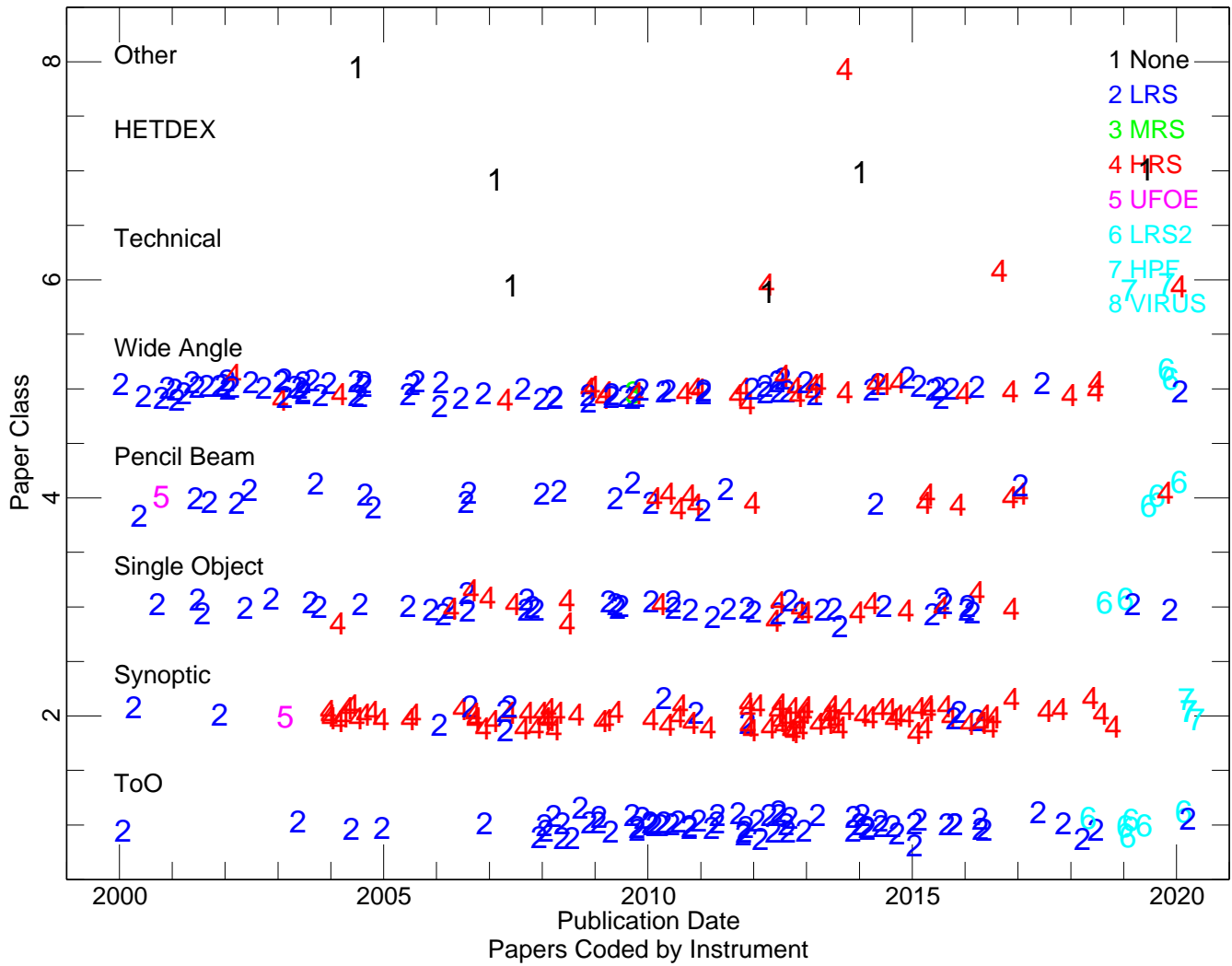
The histogram of the citation distribution of the 410 HET publications. Each bin has a width of five (e.g., the leftmost bin indicates the number of papers with 0, 1, 2, 3, or 4 citations). The rightmost bin contains all publications that have more than 250 citations (a total of 18 papers).



The logarithm of the number of citations as a function of publication date for the HET papers. (If a paper has zero citations, it is assigned a value of -0.3 .) The individual points are coded by the type of program. Most of the high-impact papers over the past decade have depended upon HET's queue-scheduling ability (Target of Opportunity and Synoptic projects).



Identical format of the previous figure, except that the individual points are coded by the instrument used for the observations. Six papers (indicated by a black “1”) did not use any HET observations, but were based on HET properties (e.g., the review of the HET queue operation).



The dates of publication of HET papers sorted by project class. The points are coded by instrument. The increasing importance of Target of Opportunity (primarily supernovae and gamma-ray bursts) and Synoptic (primarily exoplanets) is readily apparent in the diagram.

N	Pub	Year	Cite	Title
1	315	2014	1120	Improved Cosmological Constraints From a Joint Analysis of the SDSS-III and
2	159	2009	678	Structure and Formation of Elliptical and Spheroidal Galaxies.
3	38	2003	656	A Survey of $z > 5.7$ Quasars in the Sloan Digital Sky Survey II. Discovery
4	171	2009	545	First-Year Sloan Digital Sky Survey-II Supernova Results: Hubble Diagram and
5	231	2011	519	The Second Catalog of Active Galactic Nuclei Detected by the Fermi Large Area
6	187	2010	423	The First Catalog of Active Galactic Nuclei Detected by the Fermi Large Area
7	141	2008	401	Broadband Observations of the Naked-eye γ -ray Burst GRB 080319B.
8	243	2012	394	An Abundance of Small Exoplanets Around Stars with a Wide Range of
9	11	2001	375	High-Redshift Quasars Found in Sloan Digital Sky Survey Commissioning Data IV.
10	136	2008	356	An Extremely Luminous X-ray Outburst at the Birth of a Supernova.
11	24	2002	355	Towards Spectra Classification of L and T Dwarfs: Infrared and Optical
12	29	2002	342	Characterization of M, L, and T Dwarfs in the Sloan Digital Sky Survey.
13	123	2008	339	The Sloan Digital Sky Survey-II Supernova Survey: Technical Summary.
14	68	2004	325	A Survey of $z > 5.7$ Quasars in the Sloan Digital Sky Survey. III. Discovery
15	104	2007	306	Reverberation Mapping of High-Luminosity Quasars: First Results.
16	91	2006	270	A Compact Supermassive Binary Black Hole System.
17	79	2005	261	The Sloan Digital Sky Survey Quasar Catalog III. Third Data Release.
18	125	2008	251	Sodium Absorption from the Exoplanetary Atmosphere of HD 189733b Detected in
19	16	2001	249	The Chandra Deep Survey of the Hubble Deep Field North Area. II. Results from
20	70	2004	247	Detection of a Neptune-mass Planet in the ρ^1 Cancri System Using the
21	259	2012	229	Kepler-47: A Transiting Circumbinary Multiplanet System.
22	81	2006	221	Binary Quasars in the Sloan Digital Sky Survey: Evidence for Excess Clustering
23	130	2008	206	CGRaBS: An All-Sky Survey of Gamma-Ray Blazar Candidates.
24	111	2007	198	The X-ray Properties of the Most Luminous Quasars from the Sloan Digital Sky
25	202	2010	197	Bulgeless Giant Galaxies Challenge Our Picture of Galaxy Formation by
26	207	2011	195	Supermassive Black Holes do not Correlate with Galaxy Disks or Psuedobulges.
27	142	2008	193	The SEGUE Stellar Parameter Pipeline. III. Comparison with High-Resolution
28	119	2007	192	Four Quasars above Redshift 6 Discovered by the Canada-France High-z
29	197	2010	190	The California Planet Survey. I. Four New Giant Exoplanets.
30	13	2001	189	Colors of 2625 Quasars at $0 < z < 5$ Measured in the Sloan Digital Sky Survey
31	5	2000	186	The Missing Link: Early Methane (“T”) Dwarfs in the Sloan Digital Sky Survey.
32	60	2004	182	The Munich Near-Infrared Cluster Survey (MUNICS). VI. The Stellar Masses
33	116	2007	181	SN 2005ap: A Most Brilliant Explosion.
34	160	2009	178	Luminous Thermal Flares from Quiescent Supermassive Black Holes.
35	124	2008	176	The Sloan Digital Sky Survey-II Supernova Survey: Search Algorithm and
36	31	2002	176	Large-Amplitude X-Ray Outbursts from Galactic Nuclei: A Systematic
37	106	2007	170	Oxygen Abundances in Nearby Stars. Clues to the Formation and Evolution
38	198	2010	169	The Effect of Host Galaxies on Type Ia Supernovae in the SDSS-II Supernova
39	277	2013	162	Oxygen Abundances in Nearby FGK Stars and the Galactic Chemical Evolution of
40	248	2012	160	The Luminosity Function of Fermi-detected Flat-spectrum Radio Quasars.
41	311	2014	159	A Wolf-Rayet-like Progenitor of SN 2013cu from Spectral Observations of a
42	143	2008	157	The Sloan Digital Sky Survey-II Photometry and Supernova Ia Light Curves
43	266	2012	151	The Neptune-sized Circumbinary Planet Kepler-38b.
44	155	2009	150	SN 2005cs in M51 II. Complete Evolution in the Optical and the Near-Infrared.
45	270	2012	149	An Over-massive Black Hole in the Compact Lenticular Galaxy NGC 1277.
46	300	2014	148	A Panchromatic View of the Restless SN 2009ip Reveals the Explosive Ejection of
47	97	2006	146	Exploring the frequency of Close-in Jovian Planets Around M Dwarfs.
48	96	2006	145	A Transiting Planet of a Sun-like Star.
49	44	2003	142	Accretion Disk Wind in the AGN Broad Line Region: Spectroscopically Resolved
50	121	2007	139	Dynamical Modelling of Luminous and Dark Matter in 17 Coma Early-Type Galaxies.

HET Papers Sorted by Number of Citations (continued)

N	Pub	Year	Cite	Title
51	227	2011	136	KOI-54: The Kepler Discovery of Tidally-Excited Pulsations and
52	164	2009	135	Variable Sodium Absorption in a Low-extinction Type Ia Supernova.
53	170	2009	134	Rotational Velocities for M Dwarfs.
54	165	2009	134	An Infrared/X-ray Survey for New Members of the Taurus Star-Forming Region.
55	167	2009	132	First-Year Sloan Digital Sky Survey-II (SDSS-II) Supernova Results:
56	220	2011	131	The Distribution of the Elements in the Galactic Disk. III. A
57	258	2012	129	A Large Systematic Search for Close Supermassive Binary and Rapidly Recoiling
58	363	2016	128	State of the Field: Extreme Precision Radial Velocities.
59	78	2005	128	A Giant Planet Around the Massive Giant Star HD 13189.
60	237	2012	125	Spectroscopy of Broad-line Blazars from 1LAC.
61	381	2018	124	The Data Release of the Sloan Digital Sky Survey-II Supernova Survey.
62	225	2011	124	The hot-Jupiter Kepler-17b: Discovery, Obliquity from Stroboscopic
63	120	2007	124	XO-2b: Transiting Hot Jupiter in a Metal-rich Common Proper Motion
64	234	2012	123	Generalized Seim-analytical Models of Supernova Light Curves.
65	10	2001	123	High-Redshift Quasars Found in Sloan Digital Sky Survey Commissioning Data III.
66	148	2009	119	Discovery of the Ultra-Bright Type II-L Supernova 2008es.
67	205	2010	114	Extremely Metal-poor Stars in Classical Dwarf Spheroidal Galaxies: Fornax,
68	58	2004	114	SN 2003du: Signatures of the Circumstellar Environment in a Normal Type Ia
69	206	2011	111	Supermassive Black Holes do not Correlate with Dark Matter Haloes of Galaxies.
70	132	2008	109	Using Quantitative Spectroscopic Analysis to Determine the Properties and
71	152	2009	108	On the Magnetic Topology of Partially and Fully Convective Stars.
72	232	2012	107	Very Early Ultraviolet and Optical Observations of the Type Ia
73	133	2008	107	XO-3b: A Massive Planet in an Eccentric Orbit Transiting an F5 V Star.
74	131	2008	106	Quasar Broad Absorption Line Variability on Multiyear Timescales.
75	367	2016	105	The Solar Neighborhood. XXXVII: The Mass-Luminosity Relation for Main-sequence
76	2	2000	100	GRB 991216 Joins the Jet Set: Discovery and Monitoring of Its Optical Afterglow.
77	313	2014	98	Binarity in Carbon-enhanced Metal-poor Stars.
78	360	2016	97	SN 2012cg: Evidence for Interaction Between a Normal Type Ia Supernova and a
79	326	2015	97	Early-time Light Curves of Type Ib/c Supernovae from the SDSS-II Supernova
80	204	2010	96	Results from the Supernova Photometric Classification Challenge.
81	42	2003	96	The Gamma-Ray Blazar Content of the Northern Sky.
82	216	2011	95	Photometric Type Ia Supernova Candidates from the Three-Year SDSS-II SN
83	178	2010	95	First-year Sloan Digital Sky Survey-II Supernova Results: Consistency and
84	93	2006	95	A Survey for New Members of Taurus with the Spitzer Space Telescope.
85	18	2001	95	High-Redshift Quasars Found in Sloan Digital Sky Survey Commissioning Data VI.
86	238	2012	94	Demonstration of On-sky Calibration of Astronomical Spectra Using a 25 GHz
87	139	2008	93	A Measurement of the Rate of Type Ia Supernovae at Redshift $z \sim 0.1$ from
88	114	2007	93	SN 2006hp: Probing the Shock Breakout of a Type II-P Supernova.
89	181	2010	91	The Rise and Fall of Type Ia Supernova Light Curves in the SDSS-II Supernova
90	82	2006	90	Cool White Dwarfs in the Sloan Digital Sky Survey.
91	39	2003	89	GRB021004: a Massive Progenitor Star Surrounded by Shells.
92	99	2006	88	Multiwavelength Observations of GRB 050810A: An Exceptionally Energetic Event
93	87	2006	87	Chandra Observations of the Highest Redshift Quasars from the Sloan
94	186	2010	85	Abundances of Red Giants in Old Open Clusters. V. Be 31, Be 32, Be 39, M 67,
95	118	2007	85	A Planetary-Mass Companion to the K0 Giant HD 17092.
96	45	2003	85	The Chandra Deep Field North Survey. XV. Optically Bright, X-ray-Faint Sources.
97	109	2007	84	Ten Year Review of Queue Scheduling of the Hobby-Eberly Telescope.
98	105	2007	82	Long-term Profile Variability of Double-Peaked Emission Lines in Active
99	341	2015	81	Kepler 453b - The 10 th Kepler Transiting Circumbinary Planet.
100	174	2010	81	The Old and Heavy Bulge of M31 I. Kinematics and Stellar Populations.

HET Papers Sorted by Number of Citations (continued)

N	Pub	Year	Cite	Title
101	57	2004	81	Dynamical Mass Constraints on Low-Mass Pre-Main-Sequence Stellar Evolutionary
102	199	2010	78	Single or Double Degenerate Progenitors? Searching for Shock Emission in the
103	61	2004	78	Searching for Planets in the Hyades. V. Limits on Planet Detection in the
104	211	2011	77	Implications of Dramatic Broad Absorption Line Variability in the Quasar
105	89	2006	77	The Spatial Distribution of Brown Dwarfs in Taurus.
106	76	2005	75	A Northern Survey of Gamma-Ray Blazar Candidates.
107	295	2013	74	The Very Young Type Ia Supernova 2013dy: Discovery, and Strong Carbon
108	255	2012	74	The PTF Orion Project: A Possible Planet Transiting a T-Tauri Star.
109	50	2003	74	A Dedicated M-Dwarf Planet Search Using The Hobby-Eberly Telescope.
110	17	2001	74	Hubble Space Telescope Images of Stephan's Quintet: Star Cluster Formation in a
111	249	2012	72	Linking Type Ia Supernova Progenitors and Their Resulting Explosions.
112	200	2010	72	A Tidal Disruption Flare in Abell 1689 from an Archival X-ray Survey of Galaxy
113	74	2005	71	X-Ray Lighthouses of the High-Redshift Universe. II. Further Snapshot
114	43	2003	71	Chandra and XMM Newton Observations of the First Quasars: X-Rays From the Age
115	264	2012	70	Oxygen Abundances in Low- and High- α Field Halo Stars and the
116	256	2012	70	The SDSS-II Supernova Survey: Parameterizing the Type Ia Supernova Rate as
117	219	2011	70	Improved Constraints on Type Ia Supernova Host Galaxy Properties Using
118	218	2011	70	A More General Model for the Intrinsic Scatter in Type Ia Supernova Distance
119	327	2015	69	Composite Bulges: The Coexistence of Classical Bulges and Discy Psuedo-bulges
120	184	2010	67	Measurements of the Rate of Type Ia Supernovae at Redshift ~ 0.3 from
121	323	2015	66	A Luminous, Fast Rising UV-transient Discovered by ROTSE: A Tidal Disruption
122	56	2004	66	Searching for Planets in the Hyades III. The Quest for Short-Period Planets.
123	221	2011	65	The Effect of Peculiar Velocities on Supernova Cosmology.
124	173	2010	65	Early- and Late-Time Observations of SN 2008ha: Additional Constraints for the
125	195	2010	64	Hot Subdwarf Stars in Close-up View. II. Rotational Properties and Wide
126	95	2006	64	The First Extrasolar Planet Discovered with a New-Generation High-Throughput
127	27	2002	64	The Chandra Deep Field North Survey. IX. Extended X-Ray Sources.
128	65	2004	63	Q0906+6930: The Highest Redshift Blazar.
129	8	2000	63	Five High-Redshift Quasars Discovered in Commissioning Imaging Data of the
130	151	2009	62	A Planet in a 0.6 AU Orbit Around the K0 Giant HD 102272.
131	247	2012	61	A Detection of H α in an Exoplanetary Exosphere.
132	98	2006	61	2MASS J05162881+2607387: A New Low-mass Double-lined Eclipsing Binary.
133	72	2004	61	High-Resolution Spectroscopy of the Transiting Planet Host Star TrES-1.
134	214	2011	60	A Spectroscopic and Photometric Survey of Novae in M31.
135	47	2003	60	The Munich Near-Infrared Cluster Survey. II. The K-Band Luminosity Function
136	276	2013	59	H α Activity of Old M Dwarfs: Stellar Cycles and Mean
137	260	2012	59	The Very Young Type-Ia SN 2012cg: Discovery and Pre-Maximum Brightness
138	215	2011	59	A Population of X-Ray Weak Quasars: PHL 1811 Analogs at High Redshift.
139	224	2011	59	The Chemical Abundances of Stars in the Halo (CASH)
140	101	2006	59	Metallicities of M Dwarf Planet Hosts from Spectral Synthesis.
141	73	2004	59	Signature of Electron Capture in Iron-rich Ejecta of SN 2003du.
142	64	2004	59	Blazar Counterparts for 3EG Sources at $-40^\circ < \delta < 0^\circ$: Pushing
143	239	2012	58	The McDonald Observatory Planet Search: New Long-period Giant Planets
144	182	2010	58	Long-Term Profile Variability in Active Galactic Nuclei with Double-Peaked
145	158	2009	58	A Search for Multi-Planet Systems Using the Hobby-Eberly Telescope.
146	7	2000	58	Spectroscopy of Blue Stragglers and Turnoff Stars in M67 (NGC 2682).
147	210	2011	57	SN 2008 am: A Super-luminous Type II _n Supernova.
148	183	2010	57	The Evolution of Quasar C IV and Si IV Broad Absorption Lines Over
149	230	2011	56	The Orbit and Companion of Probable Gamma-Ray Pulsar J2339-0533.
150	172	2009	56	Planetary Nebulae in Face-On Spiral Galaxies. III. Planetary Nebula

HET Papers Sorted by Number of Citations (continued)

N	Pub	Year	Cite	Title
151	135	2008	56	First-Year Spectroscopy for the Sloan Digital Sky Survey-II Supernova Survey.
152	324	2015	55	The Broad-lined Type Ic SN 2012ap and the Nature of Relativistic Supernovae
153	252	2012	55	Kinematic Signatures of Bulges Correlate with Bulge Morphologies and
154	177	2010	55	Type II-P Supernovae from the SDSS-II Supernova Survey and the Standardized
155	150	2009	55	Calibrating M-dwarf Metallicities Using Molecular Indices: Extension to
156	108	2007	55	Results of Monitoring the Dramatically Variable C IV Mini-BAL System
157	21	2001	55	Exploratory Chandra Observations of the Highest-Redshift Quasars: X-rays from
158	299	2014	54	Three Planetary Companions Around M67 Stars.
159	267	2012	54	Revisiting ρ^1 Cancri e: A New Mass Determination of the
160	213	2011	54	PTF 10fqj: A Luminous Red Nova in the Spiral Galaxy Messier 99.
161	112	2007	54	The Mass of the Candidate Exoplanet Companion to HD 33636 from Hubble Space
162	83	2006	54	SN 2005cg: Explosion Physics and Circumstellar Interaction of Normal
163	168	2009	53	Multi-Wavelength Properties of the Type IIb SN 2008ax.
164	75	2005	53	A New Detached M Dwarf Eclipsing Binary.
165	36	2003	53	The Blue Straggler RS Canum Venaticorum Star S1082 in M67: A Detailed
166	113	2007	52	SN 2005hj: Evidence for Two Classes of Normal-Bright SNe Ia and Implications
167	217	2011	51	Silicon and Oxygen Abundances in Planet-host Stars.
168	157	2009	50	Comment on the Black Hole Recoil Candidate Quasar SDSSJ092712.65+294344.0.
169	35	2003	50	X-Ray Lighthouses of the High-Redshift Universe: Probing the Most Luminous
170	4	2000	50	Observations of Faint, Hard-Band X-ray Sources in the Field of
171	328	2015	49	Radial Velocity Observations and Light Curve Noise Modeling Confirm that
172	273	2012	49	The Discovery of HD 37605c and a Dispositive Null Detection of Transits of
173	102	2007	48	Long-Period Objects in the Extrasolar Planetary Systems 47 UMa and 14 Her.
174	340	2015	47	High-velocity Features of Calcium and Silicon in the Spectra of Type Ia
175	303	2014	47	KIC 3858884: A Hybrid δ Scuti Pulsator in a Highly Eccentric
176	236	2012	47	X-Ray and Multiwavelength Insights into the Nature of Weak Emission-line
177	85	2006	47	51 Eridani and GJ 3305: A 10-15 Myr old Binary Star System at 30 Parsecs.
178	69	2004	47	The Chandra Deep Field-North Survey. XVII. Evolution of Magnetic Activity
179	335	2015	46	Hunting for Supermassive Black Holes in Nearby Galaxies with the Hobby-Eberly
180	12	2001	46	High-Redshift Quasars Found in Sloan Digital Sky Survey Commissioning Data V.
181	20	2001	45	Short-term Emission Line and Continuum Variations in Mrk 110.
182	349	2015	44	The Early Days of the Sculptor Dwarf Galaxy.
183	66	2004	44	The First Hobby-Eberly Telescope Planet: A Companion to HD 37605.
184	314	2014	43	A Misaligned Prograde Orbit for Kepler-13 AB via Doppler Tomography.
185	310	2014	43	Hubble Space Telescope and Ground-based Observations of the Type Iax
186	253	2012	43	BD +48 740 – Li Overabundant Giant Star with a Planet: A Case of Recent
187	22	2001	43	The Munich Near-Infrared Cluster Survey: Number Density Evolution of Massive
188	317	2014	42	The Core Collapse Supernova Rate From the SDSS-II Supernova Survey.
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203	294	2013	38	High-velocity Line Forming Regions in the Type Ia Supernova 2009ig.
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206	23	2002	38	L Dwarfs Found in Sloan Digital Sky Survey Commissioning Data II. Hobby-Eberly
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208	339	2015	37	Massive Relic Galaxies Challenge the Co-evolution of Super-massive Black Holes
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214	147	2009	36	M31N 2007–11d: A Slowly Rising, Luminous Nova in M31.
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226	272	2012	32	New M, L, and T Dwarf Companions to Nearby Stars from the Wide-field
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