Walter Peter Maksym

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Current bibliography: https://tinyurl.com/y47c6gdb

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RESEARCH SUMMARY

I primarily study the feeding habits of **black holes**, particularly supermassive and intermediate-mass black holes, as well as their interactions with their environments. To do so, I mainly use multi-wavelength **time domain observations**, as well as **spatially resolved studies** of black hole host galaxies. I am particularly interested in the tidal disruption of stars by supermassive black holes and connections to black hole accretion physics, as well as AGN feedback, AGN shutdown, and the co-evolution of black holes with their host galaxies. In addition, I have wide-ranging interests in **high-energy astrophysics**, and have contributed to studies which vary in scale from X-ray binaries to galaxy clusters. I have been PI of projects totaling **$1,482,919** in grants to date.

POST-DOCTORAL EMPLOYMENT

2015-present: **Harvard-Smithsonian Center for Astrophysics**
2021-present: SAO Astrophysicist (Indefinite); PI, multiple observational projects
2018-2021: SAO Astrophysicist (Postdoctoral Fellow); PI, multiple obs. projects
2015-2018: SAO Postdoctoral Fellow;
Supervisors: G. Fabbiano, M. Elvis, T. Storchi-Bergmann
Spatially resolved X-ray, multi-wavelength obs. of obscured AGN & feedback

2012-2015: **University of Alabama Department of Physics and Astronomy**
Postdoctoral Researcher; *Supervisors*: Jimmy A. Irwin and William C. Keel
X-ray and multi-wavelength time domain studies on scales from ∼s to ∼Myrs

EDUCATION

Northwestern University, Evanston, IL
Ph.D., 2012, Physics and Astronomy; *Advisor*: Melville P. Ulmer
Thesis: An X-ray Survey for Tidal Disruption Flares in Rich Clusters of Galaxies
M.S., 2008, Physics and Astronomy

Harvard University, Cambridge, MA
2002-2004, Astronomy, Special Student; Five graduate courses.

Yale University, New Haven, CT
B.S., 1999, Astronomy and Physics; *Advisor*: Pierre Demarque
Senior Project: Calc. of the Seismic P-Modes and G-modes of 16 Cyg A and B

PRE-DOCTORAL EMPLOYMENT

Northwestern University Department of Physics & Astronomy, **2005-2012**
Graduate Research Assistant; *Thesis Advisor*: Melville P. Ulmer
A galaxy cluster survey for X-ray flares from the tidal disruption of stars.

Northwestern University Department of Physics & Astronomy, **2006**
Graduate Research Assistant; *Supervisor*: Craig Heinke
Studied X-ray sources in M3 (supersoft source, millisecond pulsars)

Harvard-Smithsonian Center for Astrophysics, **2000-2005**
Data Specialist, Chandra X-ray Observatory (CXO); *Supervisor*: Dong-Woo Kim

- ⋆ 4 "Outstanding" annual review assessments.
- ⋆ Primary Special Automatic Processing (SAP) specialist.
- ⋆ Software design, testing and operation. Documentation and training.

Johns Hopkins University Dept. of Physics and Astronomy, **Summer 1998**
Undergraduate Research Assistant; *Supervisor*: Brian Espey
Obtained line profile measurements of QSO spectra for Baldwin Effect studies.

LARGE SCIENTIFIC COLLABORATIONS

2017-present: STROBE-X Science Working Group
2017-present: JWST North Ecliptic Pole Time Domain Field Team:
Leader: *Chandra* observations and analysis
2016-present: X-ray Surveyor Science Working Groups:
"Feedback", "Synergy", and "Extreme Physics"
2015-present: Athena+ Science Working Group 2.6,
"Luminous X-ray Transients"
2015-present: CHandra Extended Emission line Survey (CHEERS)
2014-present: Radio Galaxy Zoo
2014-present: Gaia Transients: AGNs & TDEs Working Group
2013-present: LOFT supporter
2013-present: International Astrostatistics Association
2012-present: Galaxy Zoo
Analysis of rare Extended Emission Line Objects
identified by Citizen Scientist volunteers.
2012-2015: J-PAS
(Javalambre Physics of the Accelerating Universe Astrophysical Survey)
2001-2005: ChaMP (Chandra Multi-wavelength Project)
X-ray analysis team, Galaxy team

MEMBERSHIPS

2020-present: International Astronomical Union
2013-present: International Astrostatistics Association
1999-present: American Astronomical Society

FUNDED AND OTHER APPROVED PROGRAMS

as PI, Total: $1,482,919 in observation grants awarded. 3.3 megaseconds[1] *Chandra*, 333 ks *XMM-Newton*, 73 orbits *HST*, 24 ks *Swift*, 8 hours NRAO-VLA, 13.2 hours *Gemini*, 3 nights *Magellan*.

- ⋆ **Chandra Cycles 22-24** 'Ultra-Deep Chandra Monitoring of the JWST-NEP Time Domain Field', 900 ks *Chandra*, $143,000 awarded.
- ⋆ **Chandra Cycle 22** 'Deep Chandra Observations of Spectacular NGC 3081', 240 ks *Chandra*, $83,520 awarded.
- ⋆ **Chandra Cycle 21** 'Ultra-Deep Development of the JWST-NEP Time Domain Field', 360 ks *Chandra*, $105,380 awarded.
- ⋆ **Magellan 2019A** 'IMACS IFU Spectroscopy of Candidate Fading Active Galactic Nuclei', 3 nights Baade/IMACS.
- ⋆ **Swift TOO, 2018 Aug.** 'JWST NEP-TDF X-ray Transient', 24 ks *Swift*.
- ⋆ **Chandra Cycle 20-21** 'Coordinated Ultra-Deep X-ray Monitoring of the JWST-NEP Time Domain Field', 600 ks *Chandra* (only 240 ks executable due to *JWST* delay), $124,500 awarded.
- ⋆ **Chandra Cycle 19** 'NGC 3393: Resolving Feedback in the Narrow Line Region on 50-pc Scales', 450 ks *Chandra*, 4 hours NRAO-VLA, $202,707 awarded.
- ⋆ **Chandra Cycle 19** 'Deep Pilot X-ray Observations of the JWST-NEP Time Domain Field', 300 ks *Chandra*, $146,697 awarded.
- ⋆ **Hubble Cycle 25-26** 'Continued Long-Term Ultraviolet Spectroscopy of a Tidal Disruption Event at only 90 Mpc', 16 orbits *HST*, 40 ks *XMM-Newton* awarded, $76,947 awarded by *HST* for Cycles 25-26.
- ⋆ **Hubble Cycle 25** 'Resolved BPT Mapping of Nearby AGN', 19 orbits *HST*, 60 ks *Chandra* awarded, $179,906 awarded by *HST*. $32,187 jointly awarded by *Chandra*.
- ⋆ **Chandra Cycle 18** 'Continued Quasar and AGN Variability on 10-100 kyr Timescales', 150 ks awarded, $69,430 awarded.
- ⋆ **Chandra Cycle 17-19** 'LongTerm Multiwavelength Monitoring of a Stellar Tidal Disruption at Only 90 Mpc', 165 ks *Chandra*, 135 ks *XMM-Newton*, 4 hours NRAO-VLA, $65,381 awarded.
- ⋆ **Hubble Cycle 23-24** 'Long-Term Ultraviolet Spectroscopy of a Tidal Disruption Event at only 90 Mpc', 22 orbits *HST*, 13 ks *XMM-Newton*, $122,572 awarded.
- ⋆ **Hubble Cycle 23** 'Mapping the Radiative and Kinetic History of Fading AGNs', 16 orbits awarded, $77,706 awarded.
- ⋆ **Gemini 2015A** 'Spectral Evolution and Host of an X-ray Bright Tidal Flare at Only 90 Mpc', 4.2 hours awarded, Fast Turnaround.
- ⋆ **XMM-Newton AO-14** 'Continued Probing of AGN Variability on 10-100 kyr Timescales', 145ks.

[1] $\sim$ 38.4 days. This is comparable to $\sim$24% of the *Chandra* time allocated to all General Observers per observing cycle, typically $\sim$ 14 megaseconds. It is 1 out of every $\sim$ 36 seconds of "General Observer" time awarded between 2014-2020, and in the top $\sim$ 1.5% of all $>$ 1000 General Observers (non-guaranteed).

- ⋆ **Chandra Cycle 16** 'Quasar and AGN Variability on 10-100 kyr Timescales', 90ks awarded, $52,986 awarded.
- ⋆ **Gemini 2013A** 'A Candidate Tidal Disruption Flare in Abell 1795', 9 hours.

as Co-I: > 31 ground-based and space-based programs, including > 15 NASA-funded programs (*Chandra*, *HST* and *NuSTAR*). 10 most recent Co-I programs:

- ⋆ **Chandra Cycle 22** 'The Torus and the Host: Extended Hard Emission in Heavily Obscured AGN', 140 ks *Chandra*, 140 ks *NuSTAR*. PI Martin Elvis
- ⋆ **SMA 2020A** S025 - 5 targets in the JWST-NEP-TDF, 5 tracks *SMA*. PI Giovanni Fazio
- ⋆ **Hubble Cycles 28-29** 'TREASUREHUNT: Hubble's UV-Visible treasury imaging of the JWST NEP Time-Domain Field', 52 primary & 52 parallel orbits *HST*. PI Rolf Jansen
- ⋆ **MMT 2019B** 'Near-Infrared Spectroscopy of the JWST North Ecliptic Pole Time Domain Field', 2.0 nights *MMT*. PI Christopher Willmer
- ⋆ **SMA 2019A** S010 - 5 targets in the JWST-NEP-TDF, 5 tracks *SMA*. PI Giovanni Fazio
- ⋆ **NuSTAR Cycle 5** 'Deep NuSTAR Observations of the JWST-NEP Time Domain Field', 585 ks *NuSTAR*. PI Francesca Civano
- ⋆ **XMM-Newton AO-18** 'XMM-Newton Follow-up of a Decade-long super Eddington Accreting Tidal Disruption', 27 ks *XMM-Newton*. PI Dacheng Lin
- ⋆ **Chandra Cycle 21** 'Deep ACIS-S observations of the CT AGN NGC 5728', 250 ks *Chandra*. PI Pepi Fabbiano
- ⋆ **Chandra Cycle 21** 'X-ray Emission from the Dwarf AGN IC 750', 150 ks *Chandra*. PI Ingyin Zaw
- ⋆ **Chandra Cycle 20** 'The Torus and the Host: Extended Hard Emission in Compton Thick AGN with NuSTAR Spectra', 209 ks *Chandra* 100 ks *NuSTAR*. PI Martin Elvis

OTHER PROGRAMS AND AWARDS

- ⋆ **NASA Astrophysics Data Analysis Program, 2008-2011**
  "A Search for X-ray Emission Induced by Tidal Flares Around Massive Quiescent Black Holes in the Center of Galaxies". PI Melville Ulmer
- ⋆ **Graduate Assistance in Areas of National Need Fellowship, 2007-2008**
  PI's Melville Ulmer and David Taylor
- ⋆ **NASA Illinois Space Grant Consortium Fellowship, Fall 2007**
- ⋆ **Enhanced University Fellowship, 2005-2006**
- ⋆ **NASA Summer Research Program, Summer 2005**

TEACHING AND MENTORING

Postdocs

2019-present:Jingzhe Ma
as co-PI with G. Fabbiano, M. Elvis

2019-present:Andrea Travascio; *offer accepted*
as co-PI with G. Fabbiano, M. Elvis

Graduate Students

2018-2019: Kieran Parker, M.S., Mapping the Interaction of Active Nuclear Supermassive Black Holes with Their Host Galaxy
Advisor: Giuseppina Fabbiano, Smithsonian Astrophysical Observatory

2014-2019: Lia Sartori, Ph.D., Extended Emission Line Regions from Galaxy Zoo
Advisor: Kevin Schawinski, ETH Zürich

2014-2018: Lucas Johnson, Ph.D., Finding Fossil Galaxy System Progenitors with Strong Lensing ;
Lecturer, Georgia State U.; Asst. Prof. at U. of West Alabama
Advisor: Jimmy Irwin, University of Alabama, 2018 Ph.D.

2011-2014: Matt Wampler-Doty, A Comprehensive Archival X-ray Variability Survey
Advisor: Melville Ulmer, Northwestern University, 2013 M.A.

NASA Summer Research Program
for Exceptional High School and College Students: Mentor
Northwestern University Department of Physics and Astronomy

2010: Laura Klein, HST/WFPC2 cosmic ray removal and photometry
2009: Mason Volk, tidal flares in rich clusters of galaxies
2007: K. Decker French, X-ray lensing in galaxy clusters;
2017 Hubble Fellow; Asst. Prof. at U. of Illinois
2007: Kiefer Aguillar, cosmic shear from weak lensing in galaxy clusters

Guest Lecturer, *Harvard University Summer School*

2019: Physics P-17215 : *Introduction to Astrophysics* for Idan Ginsburg
2018: Physics P-17220 : *Introduction to Black Holes* for Idan Ginsburg

Teaching Assistant, *Northwestern University Department of Physics and Astronomy*

2012: Physics 135-1: *General Physics: Discussion Section* for Giles Novak
2012: Physics 135-1: *General Physics: Lab* for Arthur Schmidt
2011: Physics 130-1: *College Physics: Lab* for Arthur Schmidt
2011: Physics 135-1: *General Physics: Lab* for Arthur Schmidt
2010: Astronomy 101-0: *Modern Cosmology* for Mike Smutko, including regular operation of the historic Dearborn Observatory 18.5" refractor
2007: Astronomy 101-0: *Modern Cosmology* for Mike Smutko
Astronomy 102-0: *The Milky Way Galaxy* for Ron Taam

Undergraduate Tutoring, *Northwestern University*

2009: Physics 130-2, *College Physics* (Electromagnetism)
2006: Mathematics 220, *Differential Calculus of One Variable*

SERVICE ACTIVITIES

Conferences Organized:

Aspen Center for Physics: Workshop Co-organizer, 'Black Hole Formation, Accretion, and Outflows through Cosmic Time', Summer 2021

Aspen Center for Physics: Workshop Co-organizer, 'Black Hole Formation, Accretion, and Outflows through Cosmic Time', Summer 2020[a]

Harvard-Smithsonian Postdoc Symposium: 2018, 2019, 2020, SOC/LOC

NASA Hubble Fellowship Program:

Panel Monitor: *2020 Call for Applications:* Compact Objects & Accretion

Hubble Time Allocation Peer Review:

Director's Discretionary Time Program: Referee, 3 proposals since 2016

Panels: *Cycle 27:* Black Holes, *Cycle 25:* Galaxies, *Cycle 24:* Black Holes & Hosts

Chandra Time Allocation Peer Review:

Deputy Panel Chair *Cycle 22:* Active Galactic Nuclei

Facilitator: *Cycle 4*

Swift Time Allocation Peer Review:

Panels: *Cycle 16:* Active Galactic Nuclei

NASA Postdoctoral Program Peer Review: 2019-present

Journal Referee: *Astronomy & Astrophysics*, 2018-present, *Monthly Notices of the Royal Astronomical Society*, 2015-present, *Astrophysical Journal*, 2011-present

AAS Chambliss Judge: 2014, 2015, 2016, 2017, 2018

Astronomical Society of the Pacific, 119^{th} Annual Meeting, Adler Planetarium, Chicago, IL, September 2007

CfA High Energy Astrophysics Division (HEAD) 10-year Strategic Plan:

Co-chair, "Divisional Communication", 2021

CfA High Energy Astrophysics Division (HEAD) Lunch Talks:

Co-organizer, 2019-present

CfA Postdoctoral Council: Member, 2018-2019

[a]cancelled due to COVID-19; re-application required and approved by the Aspen Center for Physics

OUTREACH

Whipple Observatory Star Party:

https://www.youtube.com/watch?v=IKOMAcWnFi0

Guest: livestreamed 2020 December 11

public talk and questions period: first $\sim$ 50 minutes

Hubble Hangouts: https://www.youtube.com/watch?v=AHskCVTHnh8

Guest: livestreamed 2015 April 2

Astrotweeps: https://astrotweeps.wordpress.com, http://twitter.com/astrotweeps

Contributor: 2015 January 12-18

Dartmouth Skype Chat Outreach: High school 'meet an astronomer' Q&A

Newfound Regional High School, NH, 2017 May 4

Woodstock High School, NH, 2014 May 22
Kimball Union Academy, NH, 2014 May 20
Alabama Museum of Natural History: Astronomy Science Sunday
2014 September 28, 2014 March 2

LANGUAGES

Native English speaker. Written and spoken German (good).

Most current ADS Library with links to papers:
https://ui.adsabs.harvard.edu/user/libraries/lY3EhIBPQ22qKu1Z7AdqFA
(shorter link: https://tinyurl.com/y47c6gdb)
ORCID: https://orcid.org/0000-0002-2203-7889

As of 2021 May 25:
43 refereed publications (2 submitted, 41 accepted), 17 non-refereed publications;
h-index 21; 1184 citations; 79 for top-cited 1st author paper:
Maksym et al., ApJ, 2010, 722, 1035

REFEREED PUBLICATIONS

43 Travascio, A.; Fabbiano, G.; Paggi, A.; Elvis, M.; **Maksym, W.P.**, Morganti, R.; Oosterloo, T.; Fiore, F.; "AGN-host interaction in IC 5063. I. Large-scale X-ray morphology ad spectral analysis", *submitted to ApJ, 2021 May 24.*

42 **Maksym, W.P.**; Fabbiano, G.; Elvis, M.; Ho, L.C.; Oosterloo, T.; Ma, J.; Fischer, T.C.; Keel, W.C.; "A Giant Loop of Ionized Gas Emerging from the Tumultuous Central Region of IC 5063", *submitted to ApJ, 2020 October 25.* [**arXiv:2010.14542**].

41 Trindade Falcão, A.; Kraemer, S.B.; Fischer, T.C.; Crenshaw, D.M.; Revalski, M.; Schmitt, H.R.; **Maksym, W.P.**, Vestergaard, M.; Elvis, M.; Gaskell, C.M.; Hamann, F.; Ho, L.C.; Hutchings, J.; Mushotzky, R.; Netzer, H.; Storchi-Bergmann, T.; Turner, T.J.; Ward, M.J.; "Hubble Space Telescope [OIII] Emission-Line Kinematics in Two Nearby QSO2s: A Case for X-ray Feedback", *accepted by MNRAS, 2021 May 25.* [**arXiv: 2105.12188**]

40 Zabludoff, A.; Arcavi, I.; La Massa, S.; Perets, H.; Trakhtenbrot, B.; Zauderer, B.A.; Auchettl, K.; Dai, J.L.; French, K.D.; Hung, T.; Kara, E.; Lodato, G.; **Maksym, W.P.**; Qin, Y.; Ramirez-Ruiz, E.; Roth, N.; Runnoe, J.; Wevers, T.; ",Distinguishing Tidal Disruption Events from Imposters ", book chapter for an ISSI review of Tidal Disruption Events, 2021, *Space Science Reviews*, Volume 217, Issue 4, article id.54. [**arXiv:2103.12150**]

39 Jones, M.L.; Parker, K.; Fabbiano, G.; Elvis, M.; **Maksym, W.P.**; Paggi, A.; Ma, J.; Karovska, M.; Siemiginowska, A.; Raymond, J.; "Extended X-ray Emission in Compton Thick AGN with Deep *Chandra* Observations", 2021, *ApJ*, 910, 19. [**arXiv:2101.11625**]

38 Revalski, M.; Meena, B.; Martinez, F.; Polack, G.; Crenshaw, D.M.; Kramer, S.; Collins, N.; Fischer, T.; Schmitt, H.; Schmidt, J.; **Maksym, W.P.**, Rafelski, M.; "Quantifying Feedback from Narrow Line Region Outflows in Nearby Active Galaxies - III. Results for the Seyfert 2 Galaxies Markarian 3, Markarian 78, and NGC 1068", 2021, *ApJ*, 910, 139. [**arXiv:2101.06270**].

37 Ma, J.; **Maksym, W.P.**; Fabbiano, G.; Elvis, M.; Storchi-Bergmann, T.; Karovska, M.; Wang, J.; Travascio, A.; "Spatially Resolved BPT Mapping of Nearby Seyfert 2 Galaxies", 2021, *ApJ*, 908, 155. [**arxiv:2009.02368**].

36 **Maksym, W.P.**; Schmidt, J.; Keel, W.C.; Fabbiano, G.; Fischer, T.C.; Bland-Hawthorn, J.; Barth, A.J.; Elvis, M.; Oosterloo, T.; Ho, L.C.; Kim, M.; Hwang, H.; Mayer, E; "Crepuscular Rays from the Highly Inclined Active Galactic Nucleus in IC 5063", 2020, *ApJL*, 902, 18. [**arXiv:2009.10153**]

35 Ma, J.; Elvis, M.; Fabbiano, G.; Baloković, M.; **Maksym, W.P.**; Jones, M.; Risaliti, G.; "Is extended hard X-ray emission ubiquitous in Compton-thick AGN", 2020, *ApJ*, 900, 164. [**arXiv:2008.02175**]

34 Jones, M.; Fabbiano, G.; Elvis, M.; Paggi, A.; Karovska, M.; **Maksym, W.P.**; Siemiginowska, A.; Raymond, J., "Chandra Observations of NGC 7212: Large-Scale Extended Hard X-ray Emission", 2020, *ApJ*, 891, 133 [**arXiv:2003.02271**]

33 **Maksym, W.P.**, Fabbiano, G.; Elvis, M.; Karovska, M.; Paggi, A.; Raymond, J.; Wang, J.; Storchi-Bergmann, T.; Risaliti, G., "CHEERS Results from NGC 3393, III: Chandra X-ray Spectroscopy of the Narrow Line Region", 2019, *ApJ*, 872, 94 [**arXiv:1810.12926**]

32 Fabbiano, G.; Paggi, A.; Karovska, M.; Elvis, M.; **Maksym, W.P.**; Risaliti, L.G., Wang, J.; "Deep Chandra Observations of ESO 428-G014: IV. Deep *Chandra* Observations of ESO 428-G014: IV. The Morphology of the Nuclear Region in the Hard Continuum and Fe Kα Line", 2019, *ApJ*, 870, 69 [**arxiv:1811.06436**]

31 Storchi-Bergmann, T.; Dall'Agnol de Oliveira, B.; Longo Micchi, F.; **Maksym, W.P.**; Schmitt, H.R.; Fischer, T.; Kraemer, S.; Crenshaw, M.; Elvis, M.; Fabbiano, G.; Colina, E., "Bipolar Ionization Lines in the Extended Narrow Line Region of Nearby QSO2S", 2018, *ApJ*, 868, 14 [**arXiv:1810.06246**]

30 Revalski, M.; Dashtamirova, D.; Crenshaw, D.M.; Kraemer, S.B.; Fischer, T.C.; Schmitt, H.R.; Gnilka, C.L.; **Maksym, W.P.**; Elvis, M., "Quantifying Feedback from Narrow Line Region Outflows in Nearby Active Galaxies. II Spatially Resolved Mass Outflow Rates for the QSO2 Markarian 34", 2018, *ApJ*, 867, 88 [**arXiv:1809.09105**]

29 Fabbiano, G.; Paggi, A.; Karovska, M.; Elvis, M.; **Maksym, W.P.**; Risaliti, L.G., Wang, J.; "Deep Chandra Observations of ESO 428-G014: III. High Resolution Imaging of the Ionization Cone and Radio Jet Region", 2018, *ApJ*, 865, 83 [**arXiv:1808.06985**]

28 Nyland, K.; Harwood, J. J.; Mukherjee, D.; Jagannathan, P.; Rujopakarn, W.; Emonts, B.; Alatalo, K.; Bicknell, G.V.; Davis, T.A.; Greene, J. E.; Kimball, A.; Lacy, M.; Lonsdale, Carol; Lonsdale, Colin; **Maksym, W.P.**; Molnar, D.C.; Morabito, L.; Murphy, E.J.; Patil, P.; Prandoni, I. Sargent, M.; Vlahakis, C., "Revolutionizing Our Understanding of AGN Feedback and its Importance to Galaxy Evolution in the Era of the Next Generation Very Large Array", 2018, *ApJ*, 859, 23 [**arXiv:1803.02357**]

27 Johnson, L.; Irwin, J.; White, R.; Wong, K.; **Maksym, W. P.**; Dupke, R.; Miller, E.; Carrasco, E., "Using Strong Gravitational Lensing to Identify Fossil Group Progenitors", 2018, *ApJ*, 856, 131 [**arXiv:1711.06205**]

26 Fabbiano, G.; Paggi, A.; Karovska, M.; Elvis, M.; **Maksym, W. P.**; Risaliti, G.; Wang, J., "Deep *Chandra* Observations of ESO 428-G014: II. Spectral Properties and Morphology of the Large-Scale Extended X-ray Emission", 2018, *ApJ*, 855, 131 [**arXiv: 1802.07818**]

25 Danehkar, A.; Karovska, M.; **Maksym, W. P.**; Montez, R., "Mapping Excitation in the Inner Regions of the Planetary Nebula NGC 5189 Using HST WFC3 Imaging", 2018, *ApJ*, 852, 87 [**arXiv:1711.11111**]

24 Sartori, L.; Schawinski, K.; Koss, M.; Ricci, C.; Treister, E.; Stern, D.; Lansbury, G.; **Maksym, W. P.**; Baloković, M.; Gandhi, P.; Keel, W.; Ballantyne, D.; "Joint *NuSTAR* and *Chandra* analysis of the obscured quasar in IC 2497 - Hannys Voorwerp system", 2018,

MNRAS 474, 2444 [**arXiv:1711.06270**]

23 Nyland, K.; Davis, T.; Nguyen, D.; Seth, A.; Wrobel, J.; Kamble, A.; Lacy, M.; Alatalo, K.; Karovska, M.; **Maksym, W.P.**; Mukherjee, D.; Young, L., "A Multi-wavelength Study of the Turbulent Central Engine of the Low-mass AGN hosted by NGC404", 2017, *ApJ* 845, 50 [**arXiv:1707.02303**]

22 Fabbiano, G.; Elvis, M.; Paggi, A.; Karovska, M.; **Maksym, W.P.**; Raymond, J.; Risaliti, G.; Wang, J., "Discovery of a Kiloparsec Extended Hard X-Ray Continuum and FeKα from the Compton Thick AGN ESO 428-G014", 2017, *ApJL* 842, 4 [**arXiv:1705.10680**]

21 Paggi, A.; Fabbiano, G.; Risaliti, G.; Wang, J.; Karovska, M.; Elvis, M.; **Maksym, W.P.**; McDowell, J.; Gallagher, J., "X-ray Emission from the Nuclear Region of Arp 220", 2017, *ApJ* 841, 44 [**arXiv:1705.01547**]

20 **Maksym, W.P.**; Fabbiano, G.; Elvis, M.; Karovska, M.; Paggi, A.; Raymond, J.; Wang, J.; Storchi-Bergmann, T., "CHEERS Results from NGC 3393, II: Investigating the Extended Narrow Line Region using Deep Chandra Observations and Hubble Space Telescope Narrow Line Imaging", 2017, *ApJ* 844, 69 [**arXiv:1611.05880**]

19 Keel, W.; Lintott, C.; **Maksym, W. P.**, Bennert, V. N.; Chojnowski, S. D.; Moiseev, A.; Smirnova, A.; Schawinski, K.; Sartori, L.; Urry, C. M.; Pancoast, A.; Schirmer, M.; Scott, B.; Showley, C.; Flatland, K., "HST Imaging of Fading AGN Candidates: AGN Histories and Outflow Signatures", 2017, *ApJ* 835, 256 [**arXiv:1612.06006**]

18 Lin, D.; Komossa, S.; Guillochon, J.; Ramirez-Ruiz, E.; Irwin, J.; **Maksym, W. P.**; Grupe, D.; Godet, O.; Webb, N.; Barret, D.; Zauderer, B. A.; Duc., P.-A.; Gwyn, S., "A likely decade-long sustained tidal disruption event", 2017, *Nature Astronomy*, 1, 33 [**arXiv:1702.00792**]

17 Irwin, J.; **Maksym, W. P.**; Sivakoff, G.; Romanowsky, A.; Lin, D.; Speegle, T.; Prado, I.; Mildebrath, D.; Strader, J.; Liu, J.; Miller, J., "Ultraluminous X-ray bursts in two ultracompact companions to nearby elliptical galaxies", 2016, *Nature*, 538, 356 [**arXiv:1610.05781**]

16 **Maksym, W.P.**; Fabbiano, G.; Elvis, M.; Karovska, M.; Paggi, A.; Raymond, J.; Wang, J.; Storchi-Bergmann, T., "Mapping Seyfert and LINER Excitation Modes in the Inner kpc of NGC 3393", 2016, *ApJ*, 829, 46, [**arXiv:1604.02065**]

15 Cenko, S.B.; Cucchiara, A.; Roth, N.; Veilleux, S.; Prochaska, J. X.; Yan, L.; Guillochon, J.; **Maksym, W. P.**; Arcavi, I.; Butler, N.; Filippenko, A.; Fruchter, A.; Gezari, S.; Kasen, D.; Levan, A.; Miller, J.; Pasham, D.; Ramirez-Ruiz, E.; Strubbe, L.; Tanvir, N.; Tombesi, F., "An Ultraviolet Spectrum of the Tidal Disruption Flare ASASSN-14li", 2016, *ApJL*, 818, 32, [**arXiv:1601.03331**].

14 Sartori, L. F.; Schawinski, K.; Koss, M.; Treister, E.; **Maksym, W. P.;** Keel, W. C.; Urry, C. M.; Lintott, C. J.; Wong, O. I., "Extended X-ray Emission in the IC 2497 - Hanny's Voorwerp System: Energy Injection in the Gas Around a Fading AGN", 2016, *MNRAS*, 457, 3629, [**arXiv:1601.07550**]

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2015, *Nature*, 526, 542, [**arXiv:1510.06348**].

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INVITED SEMINARS AND COLLOQUIA

"Supermassive Black Holes: Beacons of Astrophysics and Cosmic Evolution"
Georgia State University, April 25, 2018, Atlanta, GA

"Flickers, Flares and Flows, or:
How are Small Telescopes and the Internet Revolutionizing
our Understanding of the Most Powerful Engines in the Universe
and What Can I do About It?"
University of Nevada Reno, February 9, 2018, Reno, NV

"Supermassive Black Holes: Beacons of Astrophysics and Cosmic Evolution"
University of Nevada Reno, February 9, 2018, Reno, NV

"Observational Clues of Black Hole Accretion from the Tidal Disruption of Stars"
Boston University, October 2, 2017, Boston, MA

"Observational Clues of Black Hole Accretion from the Tidal Disruption of Stars"
Yale University, September 19, 2017, New Haven, CT

"Observational Clues of Black Hole Accretion from the Tidal Disruption of Stars"
The University of Massachusetts at Amherst, April 28, 2017, Amherst, MA

"Observational Clues of Black Hole Accretion from the Tidal Disruption of Stars"
Dartmouth College, April 13, 2017, Hanover, NH

"Resolving Feedback and AGN Mode Switching via the Narrow Line Region"
ESAC, May 4, 2016, Madrid, Spain

CONFERENCE PRESENTATIONS AND POSTERS

Jansen, R. A.; Grogin, N.; Windhorst, R.; Ashcraft, T.; Brisken, W.; Cohen, S.; Conselice, C.; Driver, S.; Finkelstein, S.; Frye, B.; Hathi, N.; Jones, V.; Joshi, B.; Kim, D.; Koekemoer, A.; **Maksym, W.P.**; Riess, A.; Rodney, S.; Royle, P.; Ryan, R. Smith, B.; Strolger, L.; White, C.; Willmer, C.; Webb Medium Deep Fields IDS GTO team; "UV–Visible observations with HST in the JWST North Ecliptic Pole Time-Domain Field", *AAS Meeting #235*, **#426.04**.

Maksym, W.P.; Elvis, M.; Fischer, T.; Revalski, M.; Crenshaw, D.; Kraemer, S.; Gnilka, C.; Storchi-Bergmann, T.; Gandhi, P.; Wiita, P.; Fabbiano, G.; "Looking for X-ray Evidence of Termination Shocks in Markarian 34", *AAS Meeting #235*, **#436.05**.

Irwin, J.; Sivakoff, G.; Lin, D.; **Maksym, W. P.**; Romanowsky, A.; Wong, K.-W.; "ULXs for a Minute: A New Giant X-ray Flare in a Nearby Galaxy", *AAS HEAD Meeting #17*, **#112.49**.

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Jansen, R. A.; Grogin, N.; Ashcraft, T.; Brisken, W.; Cohen, S.; Conselice, C.; Driver, S.; Finkelstein, S.; Frye, B.; Hathi, N.; Jones, V.; Joshi, B.; Kim, D.; Koekemoer, A.; **Maksym, W. P.**; Riess, A.; Rodney, S.; Royle, P.; Ryan, R.; Smith, B., Strolger, L.; White, C. W.; Willmer, C.; Windhorst, R., "UV-Visible observations with HST in the JWST North Ecliptic Pole Time-Domain Field", *AAS Meeting #233*, **#363.14**.

Parker, K.; Fabbiano, G.; **Maksym, W. P.**; Elvis, M., "The morphology of the 3-6 keV continuum and Fe-K emission of NGC 3393", *AAS Meeting #233*, **#242.18**.

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Maksym, W.P., "Long-Term UV Spectroscopic Monitoring of ASASSN-14li", *Using Tidal Disruption Events to Study Super-Massive Black Holes*, January 20-26, 2018, The Aspen Center for Physics.

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Nyland, K., Harwood, J., Jagnnathan, P., Mukherjee, D., Lacy, M., Morabito, L., **Maksym, W.P.**, Kimball, A., Alatalo, K., Bicknell, G., Patil, P., Emonts, B., "Revolutionizing Our Understanding of AGN Feedback and its Importance to Galaxy Evolution in the Era of the

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Danehkar, A., Karovska, M., **Maksym, W.P**, Montez, R., "Discovery of Low-ionization Envelopes in the Planetary Nebula NGC 5189: Spatially-resolved Diagnostics from HST Observations", *AAS Meeting #231*, **#241.12**.

Maksym, W.P., "Results from Long-Term Monitoring of an X-ray Bright TDE at Only 90 Mpc", *Unveiling the Physics Behind Extreme AGN Variability*, July 10-14, 2017, St. Thomas, U.S. Virgin Islands.

Maksym, W.P., "Multi-Wavelength Imaging of sub-kpc Feedback in NGC 3393", *AGN Winds on the Georgia Coast*, June 25-29, 2017, Jekyll Island, Georgia.

Maksym, W.P., "Multi-Wavelength Imaging of the Extended Narrow-Line Region of NGC 3393", *NERQUAM*, May 18th, 2017, Boston University, Boston, MA.

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Maksym, W. P.; "Observing the Environments and Feeding Habits of Massive Black Holes", *The Harvard-Smithsonian CfA Postdoctoral Symposium*, October 7th, 2016, Cambridge, MA.

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Irwin, J.; **Maksym, W. P.**, Romanowsky, A.; Strader, J.; Lin, D., "Giant Rapid X-ray Flares in Extragalactic Globular Clusters", *AAS Meeting #227*, **#411.02**.

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Maksym, W. P.; Miller, J.; Kaastra, J.; Miller, C.; Reynolds, M.; Brown, G.; Cenko, B.; Drake, J.; Gezari, S.; Guillochon, J.; Gultekin, K.; Irwin, J.; Levan, A.; Maitra, D.; Mushotzky, R.; O'Brien, P.; Paerels, F.; de Plaa, J.; Ramirez-Ruiz, E.; Strohmayer, T.; Tanvir, N.; "Shredding Stars at High Resolution", *The Universe in High-Resolution Spectra*, August 19-20, 2015, Cambridge, MA.

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Maksym, W. P.; "Chandra and the X-ray View on Tidal Disruption Events", *15 Years of Science with Chandra*, November 18-21, 2014, Boston, MA.

Maksym, W. P.; Keel, W. C.; Lintott, C.; Schawinski, K; Bennert, V. N.; Moiseev, A.; Urry, M.; Chojnowski, D.; Schirmer, M.; "A 3D Perspective on Extended Emission Line Regions from the Galaxy Zoo[2][3]", *3D2014: Gas and stars in galaxies: A multi-wavelength 3D perspective*, March 9-14, 2014, ESO, Garching, Germany.

Maksym, W. P.; Irwin, J.; Ulmer, M. P.; Roth, K.; Dupke, R. A.; Ho, L. C.; Keel, W. C.; Adami, C.; Lin, D.; "Tidal Disruption Events from Archival X-ray Observations of Dwarf Galaxies", *AAS Meeting #223*, **#406.02**.

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Maksym, W. P.; Irwin, J.; Ulmer, M.; Wampler-Doty, M.; Eracleous, M.; Ho, L. C.; Dupke, R.; "Latest Results in a Survey for Tidal Disruption Flares", *SnowPac 2013, Black Hole Fingerprints: Disruptions, Dynamics and Demographics*, March 17-22, 2013, Snowbird, Utah.

Maksym, W. P.; Keel, W. C.; Bennert, V.; Schawinski, K.; Chojnowski, D.; Lintott, C.; The Galaxy Zoo; "Probing AGN Shutdown on the Shortest Timescales", *AAS HEAD Meeting #11*, **#120.16**.

Keel, W. C.; **Maksym, W. P.**; Bennert, V.; Schawinski, K.; Lintott, C. J.; Chojnowski, D.; "HST Imaging of Giant Ionized Clouds Around Fading AGN[4]", *AAS Meeting #221*,

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- ⋆ 6-day reach: 564,736,860. Day 1 estimated audience: 11,294,737
- ⋆ Over 63 international articles, including:
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PRESENTATIONS AND SEMINARS

"Resolving AGN-Host Interactions with CHEERS", January 2016,
Harvard-Smithsonian Center for Astrophysics, High Energy Seminar

"Tidal Disruption Flares from Rich Clusters of Galaxies", August 2011,
University of Alabama, Journal Club Seminar

"New Light on Tidal Disruption Flares", November 2011,
Fermilab Center for Particle Astrophysics, Fermilab Particle Astrophysics Seminar

"Finding Tidal Flares", July 2010,
Northwestern University, Theory Group Seminar

"Tidal Flares; or, How to Tell if your Black Holes Have Been Sneaking a Snack", June 2010,
Northwestern University, NASA Summer Research Program

"The Rare and Messy Deaths of Wayward Stars: A Cautionary Tale", 2009,
Northwestern University, NASA Summer Research Program

"Observational Astrophysics at Northwestern University", 2007,
Northwestern University, Presentation for Prospective Students

"Circumnuclear Starbursts in Seyfert and Radio Galaxies", 2006,
Northwestern University, Student Lecture for Advanced Topics Course

"Broad Line Regions in AGNs", 2006,
Northwestern University, Student Lecture for Advanced Topics Course

"X-ray Flares in Other Galaxies", 2005,
Northwestern University, NASA Summer Research Program