

Pauline Barmby

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Faculty of Science/Department of Physics & Astronomy
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GitHub: <https://github.com/PBarmby>

Group website: <https://nearby-galaxies.github.io>

Education

PhD, Astronomy	Harvard University	2001
AM, Astronomy	Harvard University	1998
B.Sc.(Hons), Physics & Astronomy	University of British Columbia	1995

Experience

Acting Dean	Faculty of Science, Western University	2017–2018
Associate Dean, Graduate & Postdoctoral Studies	Faculty of Science, Western University	2015–2017
Associate Professor	Department of Physics & Astronomy, Western University	2013–present
Assistant Professor	Department of Physics & Astronomy, Western University	2007–2013
Astrophysicist	Smithsonian Astrophysical Observatory	2001–2007

Research Interests

Observational extragalactic astronomy:

galaxy formation	stellar populations	extragalactic star clusters
clusters of galaxies	active galactic nuclei	astrophysics

Research Grants

Molecular Gas in Nearby Galaxies	\$90k	Western University	2017–2019
Assembling the Big Picture of Nearby Galaxies	\$135k	NSERC Discovery Grant	2013–2018
Far Out: Tracing the Mass in M31	\$16k	Spitzer Science Center	2012
Astroinformatics	\$84k	Western University ADF	2012–2014
Star Formation Histories of Nearby Galaxies	\$125k	NSERC Discovery Grant	2008–2013
Star Formation Histories of Nearby Galaxies	\$140k	Ontario Early Researcher Award	2008–2013
The Local Group Dwarf Spheroidals	\$55k	Spitzer Science Center	2008–2011
Old and New Stars Revealed by Infrared Imaging	\$4k	Western University ADF	2008–2009
Star Formation and Star Clusters in Nearby Galaxies	\$60k	NSERC Discovery Grant	2007–2008
Mass Loss in Cepheid Variables (Co-I)	\$28k	Spitzer Science Center	2006–2009
A Complete Map of M31 with IRAC	\$74k	Spitzer Science Center	2005–2007
Imaging of the Extended Groth Strip (Co-I)	\$7k	Chandra X-ray Center	2004–2006
The Most Massive Star Clusters (Co-I)	\$18k	Space Telescope Science Institute	2004–2006
Stellar Populations in M101 (Co-I)	\$16k	Space Telescope Science Institute	2002–2005

Values are total funds over grant lifetime.

Teaching Experience

Courses taught at Western University

Astronomy 9610	Fundamentals of Modern Astrophysics (c)	9 grads	2014
Astronomy 2022	The Origin of the Universe	190 undergrads	
Physics 1402	Physics for Engineers II	385 undergrads	2013–14
Astronomy 9028	Data and Error Analysis (c)	12 grads	
Astronomy 9610	Fundamentals of Modern Astrophysics (c)	10 grads	
Astronomy 9612	Fundamentals of Computation (c)	12 grads	2012–13
Physics 1402	Physics for Engineers II	370 undergrads	
Astronomy 9610	Fundamentals of Modern Astrophysics (c)	7 grads	
Astronomy 1021	General Astronomy	85 undergrads	2011–12
Physics 1402	Physics for Engineers	180 undergrads	
Astronomy 9610	Fundamentals of Modern Astrophysics (c)	7 grads	
Astronomy 1021	General Astronomy	150 undergrads	2010–11
Astronomy 9610	Introduction to Astrophysics (t)	13 grads	
Physics 1024	Introductory Physics (c)	34 undergrads	2009–10
Astronomy 4602	Gravitational Astrophysics & Cosmology	10 undergrads	
Astronomy 1021	General Astronomy	135 undergrads	
Astronomy 9620	Galactic and Extragalactic IR Astronomy (c)	6 grads	
Astronomy 1021	General Astronomy	135 undergrads	2008–09
Physics 9028	Data and Error Analysis (c)	11 grads	
Astronomy 96xx	Extragalactic Star Formation (reading course)	1 grad	2007–08
Astronomy 4602	Gravitational Astrophysics & Cosmology	10 undergrads	
Astronomy 9620	Galactic and Extragalactic IR Astronomy (c)	6 grads	
Calculus 1000	Calculus I	90 undergrads	

(c) = co-instructor, (t)=team-taught

Computing workshops taught

R-Ladies London	Introduction to Git and GitHub	2017
Western University	Software Carpentry	2016
University of Toronto	Software Carpentry	2015
Western University	Software Carpentry	2015
American Astronomical Society Meeting	Software Carpentry	2015
University of Toronto	Software Carpentry	2014
Mozilla Toronto	Software Carpentry	2014
Western University	Western science bootcamp	2014

Student advisory duties

Faculty advisor	Western University Summer Academic Orientation	2012–2015
Member	Western Physics & Astronomy advisory committees (10 MSc, 9 PhD)	2007–present
Chair	Western University PhD examination committees (1–2/yr)	2008–present
Member	McMaster University PhD student committee (1)	2009–2012
Member	Harvard University student thesis committees (2)	2005–2008
Supervisor	Smithsonian Research Experiences for Undergraduates student	2004

Thesis Examination

1. Abedin, A.	PhD, Astronomy “Formation and past evolution of the meteoroid complex of Comet 96P/Machholz ”	Sept 2016
2. Tammour, A.	PhD, Astronomy “Insights from Unsupervised Clustering and Composite Spectral Analysis Into the Physical Properties Driving Emission and Absorption in Quasar UV/Optical Spectra”	Apr 2016
3. Silaj, J.	PhD, Astronomy “The Halpha Spectroscopy of Classical B-emission Stars”	Dec 2014
4. Desjardins, T.	PhD, Astronomy “The X-ray View of Galaxies in Compact Groups and the Coma Cluster Infall Region”	Jul 2014
5. Halonen, R.	PhD, Astronomy “The Continuum Linear Polarization Signature of Classical Be Stars”	Aug 2013
6. Bailey, N.	PhD, Astronomy “Core Formation in Partially Ionized Molecular Clouds”	Apr 2013
7. Wing, R.	MSc, Physics “Multi-sensor Calibration and Validation of the UWO-PCL NDACC Water Vapour Raman Lidar”	Dec 2012
8. Kikwaya, J.-B.	PhD, Astronomy “Bulk density of small meteoroids”	Mar 2011

Student and postdoctoral supervision at Western University**Postdoctoral fellows & research assistants**

1. M. Gorski, PDF	Molecular gas in nearby galaxies	2017–present
2. S. Lianou, PDF	Resolved star formation in nearby galaxies	2012–2015
3. J. Taylor, RA	Development of Imagecube	2013
4. M. Azimlu, PDF	HII regions in M31	2009–2011

PhD students

1. H. Papei	“Star formation histories of nearby galaxies”	2018–present
2. A. Desouza	“Gas in compact groups of galaxies” (with S. Gallagher)	2017–present
3. R. Arnason	“X-ray sources and machine learning in nearby galaxies”	2014–present
4. S. Rahmani	“What governs star formation in galaxies? A modern statistical approach”	2012–2016
5. N. Vulic	“ <i>Hubble</i> and <i>Chandra</i> studies of Local Group star clusters” (with S. Gallagher)	2012–2016
6. R. Marciniak	(withdrew)	2009–2010

MSc students

1. M. Rafiei Ravandi		2013–2015
2. D. Hemachandra	(with E. Peeters)	2012–2014
3. M. Croley		2011–2013
4. G. Farhani		2011–2012
5. J. Agar		2010–2012
6. N. Vulic	(with S. Gallagher)	2010–2012
7. H. Shiu		2009–2011
8. R. Marciniak		2008–2009
9. D. Valenzo	(withdrew)	2007

BSc students

1. S. Elkerton	BSc thesis	2016–2017
2. W. Ahmed	work-study	2015–2016
3. A. Kiar	Volunteer, USRA	2014–2016
4. A. Hidalgo Valadez	Mitacs Globalink	2014
5. G. Keenleyside	BSc thesis	2013–2014
6. E. Matlovich	work-study	2013
7. R. Odell	USRA	2012
8. F. Jalilian	USRA	2010
9. M. Gracie	USRA	2010
10. H. Shiu	USRA	2009
11. V. Lyttle	summer student	2008
12. N. Hasan	work-study	2008

Fellowships and Awards

Science Leadership Fellow	University of Toronto	2014
Florence Bucke Prize	Western Faculty of Science	2014
Outreach Award (to entire Astronomy group)	Western Faculty of Science	2010
Group Achievement Award (to Spitzer Space Telescope Payload Team)	NASA	2004
Graduate Teaching Award	Harvard University	1997, 1999
Margaret Weyerhauser Jewitt Memorial Fellowship	Harvard University	1996
Canada Scholar	Government of Canada	1990–1995

Professional Activities**University service**

Member Integrated Science program committee	Western Faculty of Science	2014
Member workload committee	Western Physics & Astronomy	2014
Member graduate affairs committee	Western Physics & Astronomy	2013–14
Member research & awards committee	Western Physics & Astronomy	2013–14
Member colloquium committee	Western Physics & Astronomy	2012–13
Member first-year operating committee	Western Faculty of Engineering	2011–14
Member Appointments committee	Western Physics & Astronomy	2011–12
Chair Outreach committee	Western Physics & Astronomy	2011–13
Member NSERC USRA selection committee	Western Faculty of Science	2008–14
Member Outreach committee	Western Physics & Astronomy	2007–13

Professional service & memberships

Member	Program committee, SciPy conference	2018
Member	AURA oversight Committee for Gemini	2017–2018
Member	York Region Astronomy Association advisory board	2017
Co-chair	Astronomy mini-symposium, SciPy conference	2017
Member	Dunlap Institute advisory board	2016–present
Chair	Software/Data Carpentry policy committee	2016–2018
Member	Membership committee, International Astrostatistics Association	2016–present
Member	ACURA-CASCA TMT Alternative Site Committee	2016
Director-at-large	Canadian Astronomical Society (CASCA)	2013–15
Member	CASCA Equity and Inclusivity Committee	2015–17
Member	CASCA Long Range Plan Implementation Committee	2014–15
Member	scientific organizing committee (SOC), “Python in Astronomy”	2014–15
Member	Canada-France-Hawaii Telescope Science Advisory Council	2014–15
Member	Users’ Committee, Gemini Observatory	2013–15
Chair	CASCA Ground-based Astronomy Committee	2013–15
Member	CASCA Ground-based Astronomy Committee	2012–13
Chair	SOC, Gemini Science Conference	2012
Member	Canadian Gemini Science Committee	2011–13
Member	local organizing committee, CASCA 2011 general meeting	2010–11
Chair	SOC, CASCA 2011 general meeting	2010–11
Member	SOC, “The Evolving ISM in the Milky Way and Nearby Galaxies”	2007
Member	<i>Spitzer Space Telescope</i> Users’ Panel	2004–07
Member	Canadian Association of Physicists	2018–present
Member	American Association of Physics Teachers	2011–2015
Member	International Astronomical Union	2009–present
Associate	COSPAR	2008–present
Member	Canadian Astronomical Society	2001–present
Member	American Astronomical Society	1997–present

Consulting

Science consultant	Ubisoft Toronto	2015
Textbook reviewer	McGraw-Hill	2013
Textbook reviewer	Cambridge University Press, Nelson Canada	2012
Test bank author	Nelson Canada	2011–2012
Textbook reviewer	W.W. Norton, Cambridge University Press	2010
Textbook reviewer	Cambridge University Press, W.H. Freeman	2009

Peer review

Reviewer	<i>Spitzer Space Telescope</i> director's discretionary time proposals	2017
Reviewer	National Research Council Grants to International Affiliations Program Annual Performance Review	2016, 2017
Member	<i>Spitzer Space Telescope</i> observing proposal review	2016
Reviewer	NASA Astrophysics Data Analysis Program	2015
Panel member	Ontario Early Researcher Awards	2014
Reviewer	CEA Eurotalents Program	2014
Reviewer	Research Foundation – Flanders	2013
Reviewer	NASA Postdoctoral Program	2013
Referee	NSERC Discovery Grants	2011, 2013, 2015
Reviewer & deputy panel chair	<i>Chandra X-ray Observatory</i> observing proposal review	2011
Member	<i>Spitzer Space Telescope</i> observing proposal review	2011
Member & panel chair	Canadian Time Allocation Committee (CFHT/Gemini/ JCMT)	2010–2011
Member	Canadian Time Allocation Committee	2008–2011
Reviewer & deputy panel chair	<i>Spitzer Space Telescope</i> observing proposal review	2008
Referee	Gemini and Canada-France-Hawaii Telescope proposals	2007–2008
Panel member	<i>Spitzer Space Telescope</i> observing proposal review	2006
Member	National Science Foundation grant peer review panel	2005
Member	NASA Office of Space Science grant peer review panel	2002

Referee, *The Astrophysical Journal*, *The Astronomical Journal*, *Astronomy & Astrophysics*, *Publications of the Astronomical Society of the Pacific*, *Monthly Notices of the Royal Astronomical Society*, 2001–present (1–2 papers per year)

Public education & outreach

Speaker	Humanist Association of London & Area	2017
Speaker	Hamilton Amateur Astronomers	2017
Speaker	Royal Astronomical Society of Canada London Centre	2016
Speaker	Western Retired Academics Group	2016
Speaker	Sunday Assembly, London	2015
Speaker	David Dunlap Observatory, Toronto	2015
Blogger	<i>Science Borealis</i> group	2015–present
Scientist-in-Residence	London Regional Children’s Museum	2012
Speaker	Western “Science Here and Now” series	2012
Organizer	Mars Science Laboratory landing event	2012
Speaker	Royal Astronomical Society of Canada London Centre	2012
Presenter	London District Science Fair	2010–2012, 2014, 2015
Speaker	Western University “Nobel Prize” series	2011
Speaker	Fraser Valley Astronomers Society	2009
Speaker	Jack Chambers Public School	2009–14
Podcaster	“365 Days of Astronomy”	2009, 2012
Speaker	Cronyn Observatory public “Observatory Night”	2008–present
Speaker	“Virtual Researcher on Call”	2008–present
Speaker	“Women in Research” , Museum of Science, Boston	2007
Speaker	Center for Astrophysics public “Observatory Night”	2007
Volunteer	Museum of Science, Boston	2003–2004
Volunteer	The MAD Scientist Network ‘Ask-A-Scientist’ website	1997–2004

Media interviews

<i>Astronomy</i> magazine, Western Gazette, CBC News Network, CJBK radio	2017
AM980 radio, Western Gazette	2015
<i>Star Spot</i> podcast, Western News	2014
Rogers <i>Western Revealed</i> , York <i>Universe</i> podcast	2013
CIXX radio, <i>Earth</i> magazine, The Weather Network, AM980 radio, Western Gazette, CHRW,	2012
The Londoner, Metro, CJBK, Blackburn Radio, The Motts, Mohawk College News, London Free Press, CBC Radio/Ontario Morning, The Globe and Mail	
CIXX radio, Canadian Press	2011
<i>Bridges</i> career planning website, Asuza Pacific University journalism students	2010
Western University, Massachusetts Institute of Technology journalism students	2009

Departmental colloquia & seminars

Slides for recent talks online at <https://figshare.com/search?q=Barmby&quick=1>

1. Western University (Planetary Science)	March 2018
2. Western University (Applied Mathematics)	January 2018
3. Western University (Science of Information)	March 2016
4. University of Victoria	July 2015
5. NRC-Herzberg Astrophysics	July 2015
6. St. Mary's University	March 2013
7. Western University (Planetary Science)	March 2013
8. Western University	September 2012
9. Swinburne University of Technology	May 2012
10. University of Toledo	March 2012
11. Western Washington University	April 2011
12. University of Rochester	March 2011
13. McMaster University	February 2010
14. Royal Military College of Canada	January 2010
15. University of Alberta	January 2010
16. University of Toronto	October 2009
17. Michigan State University	September 2009
18. Queen's University	March 2009
19. Harvard-Smithsonian Center for Astrophysics	February 2009
20. Trent University	January 2009
21. University of Minnesota	April 2008
22. Herzberg Institute of Astrophysics	February 2008
23. University of Waterloo	January 2008
24. Harvard-Smithsonian Center for Astrophysics	November 2006
25. Wesleyan University	December 2004
26. University of Rochester	December 2004
27. Harvard-Smithsonian Center for Astrophysics	March 2003
28. Harvard-Smithsonian Center for Astrophysics	September 2001
29. McMaster University	March 2001
30. European Southern Observatory	December 2000
31. Carnegie Observatories	November 2000
32. University of California at Berkeley	November 2000
33. American Museum of Natural History	October 2000
34. Dominion Astrophysical Observatory	August 2000
35. SAO Summer Intern Program	July 1999

Publications

Author names in *italics* are Western University trainees. DOIs are linked to papers.

Submitted refereed publications

1. Mahajan, S., Ashby, M.L.N., Willner, S.P., Barmby, P., Maragkoudakis, A., and Raychaudhury, S., 2017, “The Star Formation Reference Survey III. A multi-wavelength view of dust and star formation in nearby galaxies”. *ApJ*, submitted.
2. **Vulic, N.**, Barmby, P., and Gallagher, S. C., 2017, “Milky Way Globular Cluster Metallicity and Low-Mass X-ray Binaries: The Red Giant Influence”. *MNRAS*, submitted.
3. **Rahmani, S.**, Teimoorinia, H., and Barmby, P., 2016, “Classifying galaxy spectra at $0.5 < z < 1$: an unsupervised approach”. *MNRAS*, submitted.

Refereed publications

4. Hart, E. M., Barmby, P., LeBauer, D., Michonneau, F., Mount, S., Mulrooney, P., Poisot, T., Woo, K. H., Zimmerman, N. B., and Hollister, J. W., 2016, “Ten Simple Rules for Digital Data Storage”. *PLoS Comput. Biol.* 12, 10, e1005097. DOI: 10.1371/journal.pcbi.1005097.
5. **Lianou, S.**, Xilouris, E., Madden, S. C., and Barmby, P., 2016, “The dustier early-type galaxies deviate from late-type galaxies’ scaling relations”. *MNRAS* 461, 2856–2866. DOI: 10.1093/mnras/stw1467.
6. Mok, A., Wilson, C. D., Golding, J., Warren, B. E., Israel, F. P., Serjeant, S., Knapen, J. H., Sánchez-Gallego, J. R., Barmby, P., Bendo, G. J., Rosolowsky, E., and van der Werf, P., 2016, “The JCMT nearby galaxies legacy survey - X. Environmental effects on the molecular gas and star formation properties of spiral galaxies”. *MNRAS* 456, 4384–4406. DOI: 10.1093/mnras/stv2958.
7. **Raffei Ravandi, M.**, Barmby, P., Ashby, M. L. N., Laine, S., Davidge, T. J., Zhang, J., Bianchi, L., Babul, A., and Chapman, S. C., 2016, “The extended disc and halo of the Andromeda galaxy observed with Spitzer-IRAC”. *MNRAS* 459, 1403–1414. DOI: 10.1093/mnras/stw652.
8. **Rahmani, S.**, **Lianou, S.**, and Barmby, P., 2016, “Star formation laws in the Andromeda galaxy: gas, stars, metals and the surface density of star formation”. *MNRAS* 456, 4128–4144. DOI: 10.1093/mnras/stv2951.
9. **Vulic, N.**, Gallagher, S. C., and Barmby, P., 2016, “X-rays beware: the deepest Chandra catalogue of point sources in M31”. *MNRAS* 461, 3443–3456. DOI: 10.1093/mnras/stw1523.
10. Boyer, M. L., McQuinn, K. B. W., Barmby, P., Bonanos, A. Z., Gehrz, R. D., Gordon, K. D., Groenewegen, M. A. T., Lagadec, E., Lennon, D., Marengo, M., McDonald, I., Meixner, M., Skillman, E., Sloan, G. C., Sonneborn, G., van Loon, J. T., and Zijlstra, A., 2015, “An Infrared Census of Dust in Nearby Galaxies with Spitzer (DUSTiNGS). II. Discovery of Metal-poor Dusty AGB Stars”. *ApJ* 800, 51. DOI: 10.1088/0004-637X/800/1/51.
11. Boyer, M. L., McQuinn, K. B. W., Barmby, P., Bonanos, A. Z., Gehrz, R. D., Gordon, K. D., Groenewegen, M. A. T., Lagadec, E., Lennon, D., Marengo, M., Meixner, M., Skillman, E., Sloan, G. C., Sonneborn, G., van Loon, J. T., and Zijlstra, A., 2015, “An Infrared Census of Dust in nearby Galaxies with Spitzer (DUSTiNGS). I. Overview”. *ApJS* 216, 10. DOI: 10.1088/0067-0049/216/1/10.
12. **Hemachandra, D.**, Barmby, P., Peeters, E., Willner, S. P., Ashby, M. L. N., Smith, H. A., Gordon, K. D., Smith, D. A., and Fazio, G. G., 2015, “Mid-infrared spectroscopy of the Andromeda galaxy”. *MNRAS* 454, 818–830. DOI: 10.1093/mnras/stv2001.
13. Nandra, K. et al., 2015, “AEGIS-X: Deep Chandra Imaging of the Central Groth Strip”. *ApJS* 220, 10. DOI: 10.1088/0067-0049/220/1/10.
14. **Lianou, S.**, Barmby, P., Rémy-Ruyer, A., Madden, S.C., Galliano, F., and Lebouteiller, V., 2014, “Probing the interstellar medium of NGC1569 with *Herschel*”. *MNRAS* 445, 1003. DOI: 10.1093/mnras/stu1770.

15. **Vulic, N.**, Gallagher, S. C., and Barmby, P., 2014, “Faint X-Ray Binaries and Their Optical Counterparts in M31”. *ApJ* 790, 136. DOI: 10.1088/0004-637X/790/2/136.
16. **Agar, J.R.R.** and Barmby, P., 2013, “M31 Globular Cluster Structures and the Presence of X-Ray Binaries”. *AJ* 146, 135. DOI: 10.1088/0004-6256/146/5/135.
17. Ashby, M. L. N. et al., 2013, “SEDS: The Spitzer Extended Deep Survey. Survey Design, Photometry, and Deep IRAC Source Counts”. *ApJ* 769, 80. DOI: 10.1088/0004-637X/769/1/80.
18. Huang, J.-S., Faber, S. M., Willmer, C. N. A., Rigopoulou, D., Koo, D., Newman, J., Shu, C., Ashby, M. L. N., Barmby, P., Coil, A., Luo, Z., Magdis, G., Wang, T., Weiner, B., Willner, S. P., Zheng, X. Z., and Fazio, G. G., 2013, “Multi-Wavelength Study of a Complete IRAC 3.6 μ m Selected Galaxy Sample: A Fair Census of Red and Blue Populations at Redshifts 0.4-1.2”. *ApJ* 766, 21. DOI: 10.1088/0004-637X/766/1/21.
19. **Vulic, N.**, Barmby, P., and Gallagher, S. C., 2013, “Stacking Star Clusters in M51: Searching for Faint X-Ray Binaries”. *ApJ* 763, 96. DOI: 10.1088/0004-637X/763/2/96.
20. Barmby, P. and **Jalilian, F. F.**, 2012, “Comparing Mid-infrared Globular Cluster Colors with Population Synthesis Models”. *AJ* 143, 87. DOI: 10.1088/0004-6256/143/4/87.
21. Sánchez-Gallego, J. R., Knapen, J. H., Wilson, C. D., Barmby, P., **Azimlu, M.**, and Courteau, S., 2012, “The JCMT Nearby Galaxies Legacy Survey - VII. H α imaging and massive star formation properties”. *MNRAS* 422, 3208–3248. DOI: 10.1111/j.1365-2966.2012.20845.x.
22. Willner, S. P., Ashby, M. L. N., Barmby, P., Chapman, S. C., Coil, A. L., Cooper, M. C., Huang, J.-S., Ivison, R., and Koo, D. C., 2012, “A Fully Identified Sample of AEGIS20 Microjansky Radio Sources”. *ApJ* 756, 72. DOI: 10.1088/0004-637X/756/1/72.
23. Wilson, C. D. et al., 2012, “The JCMT Nearby Galaxies Legacy Survey - VIII. CO data and the $L_{CO(3-2)}$ - L_{FIR} correlation in the SINGS sample”. *MNRAS* 424, 3050–3080. DOI: 10.1111/j.1365-2966.2012.21453.x.
24. Ashby, M. L. N., Mahajan, S., Smith, H. A., Willner, S. P., Fazio, G. G., Raychaudhury, S., Zezas, A., Barmby, P., Bonfini, P., Cao, C., González-Alfonso, E., Ishihara, D., Kaneda, H., Lyttle, V., Madden, S., Papovich, C., Sturm, E., Surace, J., Wu, H., and Zhu, Y.-N., 2011, “The Star Formation Reference Survey. I. Survey Description and Basic Data”. *PASP* 123, 1011–1029. DOI: 10.1086/661920.
25. **Azimlu, M.**, **Marciniak, R.**, and Barmby, P., 2011, “A New Catalog of H II Regions in M31”. *AJ* 142, 139. DOI: 10.1088/0004-6256/142/4/139.
26. Barmby, P., Marengo, M., Evans, N. R., Bono, G., Huelsman, D., Su, K. Y. L., Welch, D. L., and Fazio, G. G., 2011, “Galactic Cepheids with Spitzer. II. Search for Extended Infrared Emission”. *AJ* 141, 42. DOI: 10.1088/0004-6256/141/2/42.
27. Domínguez, A., Primack, J. R., Rosario, D. J., Prada, F., Gilmore, R. C., Faber, S. M., Koo, D. C., Somerville, R. S., Pérez-Torres, M. A., Pérez-González, P., Huang, J.-S., Davis, M., Guhathakurta, P., Barmby, P., Conselice, C. J., Lozano, M., Newman, J. A., and Cooper, M. C., 2011, “Extragalactic background light inferred from AEGIS galaxy-SED-type fractions”. *MNRAS* 410, 2556–2578. DOI: 10.1111/j.1365-2966.2010.17631.x.
28. Sánchez-Gallego, J. R., Knapen, J. H., Heiner, J. S., Wilson, C. D., Warren, B. E., Allen, R. J., **Azimlu, M.**, Barmby, P., Bendo, G. J., Comerón, S., Israel, F. P., Serjeant, S., Tilanus, R. P. J., Vlahakis, C., and van der Werf, P., 2011, “The JCMT Nearby Galaxies Legacy Survey. VI. The distribution of gas and star formation in M 81”. *A&A* 527, A16. DOI: 10.1051/0004-6361/201014930.
29. Yan, R. et al., 2011, “AEGIS: Demographics of X-ray and Optically Selected Active Galactic Nuclei”. *ApJ* 728, 38. DOI: 10.1088/0004-637X/728/1/38.
30. Aird, J., Nandra, K., Laird, E. S., Georgakakis, A., Ashby, M. L. N., Barmby, P., Coil, A. L., Huang, J.-S., Koekemoer, A. M., Steidel, C. C., and Willmer, C. N. A., 2010, “The evolution of the hard X-ray luminosity function of AGN”. *MNRAS* 401, 2531–2551. DOI: 10.1111/j.1365-2966.2009.15829.x.

31. Kong, A. K. H., Heinke, C. O., di Stefano, R., Cohn, H. N., Lugger, P. M., Barmby, P., Lewin, W. H. G., and Primini, F. A., 2010, “Localization of the X-ray source in the globular cluster G1 with Chandra”. *MNRAS* 407, L84–L88. DOI: 10.1111/j.1745-3933.2010.00910.x.
32. Landt, H., Buchanan, C. L., and Barmby, P., 2010, “On the dust geometry in radio-loud active galactic nuclei”. *MNRAS* 408, 1982–1997. DOI: 10.1111/j.1365-2966.2010.17264.x.
33. Marengo, M., Evans, N. R., Barmby, P., Bono, G., Welch, D. L., and Romaniello, M., 2010, “Galactic Cepheids with Spitzer. I. Leavitt Law and Colors”. *ApJ* 709, 120–134. DOI: 10.1088/0004-637X/709/1/120.
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