

# Pauline Barmby

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## Education

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

## Positions Held

|   |   |              |
|---|---|--------------|
| Associate Dean, Graduate & Postdoctoral Studies | Faculty of Science, Western University                | 2015–present |
| 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

Astroinformatics: data processing and knowledge discovery in astrophysical data

## Research Grants

|   |        |                                   |           |
|---|--------|-----------------------------------|-----------|
| 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 |

## 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

|                                       |                          |      |
|---------------------------------------|--------------------------|------|
| 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 University student advisory committees              | 2007–present |
| Examiner & chair | Western University MSc and PhD committees                   | 2008–present |
| Member           | McMaster University PhD student committee                   | 2009–2012    |
| Member           | Harvard University student thesis committees                | 2005–2008    |
| Supervisor       | Smithsonian Research Experiences for Undergraduates student | 2004         |

**Student and postdoctoral supervision at Western University**

|                      |  |              |
|----------------------|--|--------------|
| Postdoctoral fellows | S. Lianou                                      | 2012–2015    |
|                      | M. Azimlu                                      | 2009–2011    |
| PhD students         | R. Arnason                                     | 2014–present |
|                      | S. Rahmani                                     | 2012–present |
| MSc students         | N. Vulic (co-supervised with S. Gallagher)     | 2012–2016    |
|                      | R. Marciniak                                   | 2009–2010    |
|                      | M. Rafiei Ravandi                              | 2013–2015    |
|                      | D. Hemachandra (co-supervised with E. Peeters) | 2012–2014    |
|                      | M. Croley                                      | 2011–2013    |
|                      | G. Farhani                                     | 2011–2012    |
|                      | J. Agar  | 2010–2012    |
|                      | N. Vulic (co-supervised with S. Gallagher)     | 2010–2012    |
|                      | H. Shiu  | 2009–2011    |
|                      | R. Marciniak                                   | 2008–2009    |
| BSc students         | D. Valenzo                                     | 2007         |
|                      | A. Kiar  | 2014–present |
|                      | A. Hidalgo Valadez                             | 2014         |
|                      | G. Keenleyside                                 | 2013–2014    |
|                      | R. Odell                                       | 2012         |
|                      | F. Jalilian                                    | 2010         |
|                      | M. Gracie                                      | 2010         |
|                      | H. Shiu  | 2009         |
|                      | V. Lyttle                                      | 2008         |
| Research assistants  | J. Taylor                                      | 2013         |
| Work-study students  | W. Ahmed                                       | 2015–2016    |
|                      | E. Matlovich                                   | 2013         |
|                      | N. Hasan                                       | 2008         |

**Fellowships and Awards**

|  |                            |            |
|--|----------------------------|------------|
| Florence Bucke Prize   | Western Faculty of Science | 2014       |
| Outreach Award (to entire Astronomy group)                           | Western Faculty of Science | 2010       |
| Group Achievement Award<br>(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 and Volunteer Activities

### Committee & society memberships

|                   |   |                                |              |
|-------------------|---|--------------------------------|--------------|
| 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      |
|                   |   |                                |              |
| Member            | Membership committee, International Astrostatistics Association |                                | 2016–present |
| Director-at-large | Canadian Astronomical Society (CASCA)                           |                                | 2013–15      |
| Member            | CASCA Diversity 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            | American Association of Physics Teachers                        |                                | 2011–present |
| Member            | International Astronomical Union                                |                                | 2009–present |
| Associate         | COSPAR  |                                | 2008–present |
| Member            | Canadian Astronomical Society                                   |                                | 2001–present |
| Member            | American Astronomical Society                                   |                                | 1997–present |

### Consulting

|                   |   |           |
|-------------------|---|-----------|
| 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                      | 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, 2016       |
| 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

**Public education & outreach**

|                        |   |                       |
|------------------------|---|-----------------------|
| 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             |
| Volunteer              | RFB&D — audio recording of academic textbooks       | 1996–2004             |

**Media interviews**

|  |      |
|--|------|
| AM980 radio, Western Gazette   | 2015 |
| <i>Star Spot</i> podcast, Western News   | 2014 |
| Rogers <i>Western Revealed</i> , <i>York Universe</i> podcast  | 2013 |
| CIXX radio, <i>Earth</i> magazine, The Weather Network, AM980 radio, Western Gazette, CHRW, The Londoner, Metro, CJBK, Blackburn Radio, The Motts, Mohawk College News, London Free Press, CBC Radio/Ontario Morning, The Globe and Mail | 2012 |
| 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 |
| WDEL radio, Colombian National Public radio  | 2009 |
| WUML “Sunrise” radio program   | 2007 |

## Colloquia and Seminars

|   |                            |
|---|----------------------------|
| Western University (Science of Information) | March 2016                 |
| University of Victoria                      | July 2015                  |
| NRC-Herzberg Astrophysics                   | July 2015                  |
| St. Mary's University                       | March 2013                 |
| Western University (Planetary Science)      | March 2013                 |
| Western University                          | September 2012             |
| Swinburne University of Technology          | May 2012                   |
| University of Toledo                        | March 2012                 |
| Western Washington University               | April 2011                 |
| University of Rochester                     | March 2011                 |
| McMaster University                         | February 2010              |
| Royal Military College of Canada            | January 2010               |
| University of Alberta                       | January 2010               |
| University of Toronto                       | October 2009               |
| Michigan State University                   | September 2009             |
| Queen's University                          | March 2009                 |
| Harvard-Smithsonian Center for Astrophysics | February 2009              |
| Trent University                            | January 2009               |
| University of Minnesota                     | April 2008                 |
| Herzberg Institute of Astrophysics          | February 2008              |
| University of Waterloo                      | January 2008               |
| Western University (undergraduate seminar)  | 2008, 2009, 2014           |
| Harvard-Smithsonian Center for Astrophysics | November 2006              |
| Wesleyan University                         | December 2004              |
| University of Rochester                     | December 2004              |
| Harvard-Smithsonian Center for Astrophysics | September 2001, March 2003 |
| McMaster University                         | March 2001                 |
| European Southern Observatory               | December 2000              |
| Carnegie Observatories                      | November 2000              |
| University of California at Berkeley        | November 2000              |
| American Museum of Natural History          | October 2000               |
| Dominion Astrophysical Observatory          | August 2000                |
| SAO Summer Intern Program, July 1999        |                            |

# Publications

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

## Submitted refereed publications

1. *Rahmani, S.*, Teimoorinia, H., and Barmby, P., 2016, “Clustering galaxies at  $0.5 < z < 1$ : an unsupervised approach”. MNRAS, submitted.
2. Hart, E., Barmby, P., LeBauer, D., Michonneau, F., Mount, S., Poisot, T., Woo, K., Zimmerman, N., and Hollister, J., 2015, “Ten simple rules for digital data storage”. PLoS Comp. Biol. submitted. DOI: [10.7287/peerj.preprints.1448v1](https://doi.org/10.7287/peerj.preprints.1448v1).

## Refereed publications

3. *Lianou, S.*, Xilouris, E., Madden, S., and Barmby, P., 2016, “The dustier early-type galaxies deviate from late-type galaxies’ scaling relations”. MNRAS, in press.
4. 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](https://doi.org/10.1093/mnras/stv2958).
5. *Rafiei Ravandi, M.*, Barmby, P., Ashby, M. L., 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](https://doi.org/10.1093/mnras/stw652).
6. *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](https://doi.org/10.1093/mnras/stv2951).
7. *Vulic, N.*, Gallagher, S. C., and Barmby, P., 2016, “X-Rays Beware: The Deepest Chandra Catalogue of Point Sources in M31”. MNRAS, in press.
8. Boyer, M. L., McQuinn, K. B., Barmby, P., Bonanos, A. Z., Gehrz, R. D., Gordon, K. D., Groenewegen, M. A., 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](https://doi.org/10.1088/0004-637X/800/1/51).
9. Boyer, M. L., McQuinn, K. B., Barmby, P., Bonanos, A. Z., Gehrz, R. D., Gordon, K. D., Groenewegen, M. A., 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](https://doi.org/10.1088/0067-0049/216/1/10).
10. *Hemachandra, D.*, Barmby, P., Peeters, E., Willner, S. P., Ashby, M. L., 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](https://doi.org/10.1093/mnras/stv2001).
11. 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](https://doi.org/10.1088/0067-0049/220/1/10).
12. *Lianou, S.*, Barmby, P., Rémy-Ruyer, A., Madden, S., Galliano, F., and Lebouteiller, V., 2014, “Probing the interstellar medium of NGC1569 with *Herschel*”. MNRAS 445, 1003. DOI: [10.1093/mnras/stu1770](https://doi.org/10.1093/mnras/stu1770).
13. *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](https://doi.org/10.1088/0004-637X/790/2/136).
14. *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](https://doi.org/10.1088/0004-6256/146/5/135).
15. Ashby, M. L. 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](https://doi.org/10.1088/0004-637X/769/1/80).



16. Huang, J.-S., Faber, S. M., Willmer, C. N., Rigopoulou, D., Koo, D., Newman, J., Shu, C., Ashby, M. L., 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  $\mu$ 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.
17. *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.
18. 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.
19. 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 $\alpha$  imaging and massive star formation properties”. *MNRAS* 422, 3208–3248. DOI: 10.1111/j.1365-2966.2012.20845.x.
20. Willner, S. P., Ashby, M. L., 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.
21. Wilson, C. D. et al., 2012, “The JCMT Nearby Galaxies Legacy Survey - VIII. CO data and the L<sub>CO(3-2)</sub>-L<sub>FIR</sub> correlation in the SINGS sample”. *MNRAS* 424, 3050–3080. DOI: 10.1111/j.1365-2966.2012.21453.x.
22. Ashby, M. L., 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.
23. *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.
24. Barmby, P., Marengo, M., Evans, N. R., Bono, G., Huelsman, D., Su, K. Y., 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.
25. 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.
26. 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., 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.
27. 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.
28. Aird, J., Nandra, K., Laird, E. S., Georgakakis, A., Ashby, M. L., Barmby, P., Coil, A. L., Huang, J.-S., Koekemoer, A. M., Steidel, C. C., and Willmer, C. N., 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.
29. Kong, A. K., Heinke, C. O., di Stefano, R., Cohn, H. N., Lugger, P. M., Barmby, P., Lewin, W. H., 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.
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