Curriculum Vitae – Keren Sharon

Contact Information

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Personal Information

Born	1976, South Africa
Citizenship	Israeli
Residency	Permanent resident, USA
Languages	English: read, spoken, and written; Hebrew: read, spoken, and written

Employment

9/2013–present	Asst. Professor, the University of Michigan Astronomy Department
9/2012–9/2013	University of Michigan's President's Postdoctoral Fellow
3/2012–8/2012	Asst. Research Scientist at the University of Michigan Astronomy Department
8/2011–2/2012	Visiting Scholar at the University of Michigan Astronomy Department
2/2009–2/2012	Kavli Postdoctoral Fellow at the Kavli Institute for Cosmological Physics, the University of Chicago

Education

2003–2009	Ph.D. in Astrophysics, Tel-Aviv University, under the supervision of Prof. Dan Maoz Subject: *Evolution of Supernova Rates and Dark Matter In Clusters of Galaxies.*
2001–2003	M.Sc. in Astrophysics, Tel-Aviv University under the supervision of Prof. Dan Maoz Subject: *Supernova counts in deep Hubble Space Telescope fields.*
1998–2001	B.Sc. in Physics, Tel-Aviv University.

Academic Service Activities

2016	UM Astronomy Prelim Committee member
2016–	Space Telescope Users Committee
2016–	Chair of the Equity and Inclusion Committee, UMich Astronomy Department
2016–	Astronomy Faculty Ally for Diversity
2015–2016	Reviewer for ECOS-CONICYT
2015–2016	Reviewer for NASA *HST* TAC
2014–2015	Reviewer for NASA Postdoctoral Program
2013	Reviewer for NASA Swift TAC
2013–2015	UM Astronomy Graduate Admissions committee.
2013–2014	UM Astronomy Colloquium committee.
2012	Rviewer for National Science Foundation.
2011–present	Referee for the Monthly Notices of the Royal Astronomical Society Journal.
2008–present	Referee for the Astrophysical Journal.
2010	Co-organizer of the KICP postdoc symposium.
2009–2010	Member of the KICP Seminar committee.

Teaching and Mentoring

2014–present	Lecturer, Astro 201 (Intro to Astrophysics), Astro 102 (Stars, Galasies and the Universe)
2013	Guest lecturer, Astro 201 (Intro to Astrophysics)
2015–	Mentoring, Postdoctoral researcher Rachel Paterno-Mahler
2015–	Mentoring, undergraduate student Catherine Cerny
2014–	Mentoring, undergraduate student Sam Dunham
2013–	Mentoring, undergraduate student Katherine Murray
2012–	Mentoring, graduate student Traci Johnson
2011	Mentoring, REU program undergraduate student Milo Taylor.
2001– 2006	Teaching assistant, School of Physics and Astronomy, Tel Aviv University: Undergraduate classes in physics for Physics and other sciences majors; Second and Third year lab instructor for Physics majors.
2003– 2006	Lecturer at the Science Oriented Youth unit, Tel Aviv University: Teaching science and astronomy to science-oriented youth (ages 8–16) and high-school students from minority populations.
1994–1998	Military service - infantry instructor and officer in the Israel Defense Force.

Select Public Outreach

2015	Astronomy on Tap Ann Arbor
2015	Ignite Ann Arbor
2013	FEMMES (outreach: STEM-related activity focused on early elementary school-aged young women)
2013	Saturday Morning Physics lecture: Gravitational Lensing: Nature's Most Powerful Telescopes
2013	Ann Arbor Science & Skeptics "Scientists Fair 2"
2001–2008	Co-organizer of the Tel-Aviv University Astronomy Club (public outreach).
2004–2006	Scientific manager of the Israeli Astronomy and Astrophysics Olympiad for youth, in memory of Prof. Dror Sadeh.

Computational and Astronomical Experience

Observing:	Keck 10-m telescope, Mauna Kea; Magellan 6.5-m telescopes, Las Campanas Observatory, Chile; Palomar 200-inch Hale Telescope; Wise Observatory 1-m telescope, Israel.
Data reduction:	Photometric and spectroscopic data, including but not limited to HST/WFC3, HST/ACS, HST/WFPC2, Keck/LRIS.
Computing:	Extensive experience with Linux and Apple computing platforms. Extensive experience with Matlab and IRAF programming environments. Extensive user of Lenstool modeling software. Excellent knowledge of MS Office (and equivalent) tools, LaTeX, HTML, Photoshop and other multimedia softwares for presentation and communication of results. Occasional user of C, Shell and Python scripting.

Honors and Awards

2012	University od Michigan President's Postdoctoral Fellowship Program
2009	Kavli Institute for Cosmological Physics Fellowship.
2008	Kersten Visiting Fellowship (at the University of Chicago).
2007	Kersten Visiting Fellowship (at the University of Chicago).
2005	School of Physics and Astronomy award for outstanding achievements.
2003	The Commercial and Industrial Club Ilan Ramon award for outstanding academic achievements.
2002	School of Physics and Astronomy award for outstanding achievements.

Grants and Contracts (total: $677K)

2012 HST GO-13003.02-A $155.6K
2012 HST GO-13001 $17K
2013 HST GO-13337 $30K
2013 HST GO-13437 $5.5K
2013 HST Frontier Fields $38K
2014 HST GO-13639 $13.6K
2015 HST Frontier Fields $71K
2015 HST GO-14230 $19.4K
2015 HST GO-14096 $230K
2016 HST Frontier Fields $75K
2016 Goddard $22K

Telescope Time

Space Observatories (as PI or Co-I) –

2005	HST Cycle 14 GO-10509	"The Cluster Lens SDSS 1004+4112: Constraining World Models With its Multiply-Imaged Quasar and Galaxies" **CO-I, 10 orbits**
2006	HST Cycle 15 GO-10793	"A Survey for Supernovae in Massive High-Redshift Clusters" **CO-I, 15 orbits**
2010	HST Cycle 18 GO-12267	"Dissecting star formation, extinction, and stellar populations in the brightest lensed galaxy" **CO-I, 4 orbits**
2010	Joint Chandra/ HST Cycle 18 GO-12371	"Does the brightest lensed galaxy contain an AGN?" **CO-I, 3 orbits + 60ks** Chandra time
2011	HST Cycle 19 GO-12726	"Dissecting star formation, extinction, and stellar populations in the brightest lensed galaxy" **CO-I, 2 orbits**
2011	Joint Spitzer/ HST Cycle 19 GO-12659	"Strongly Lensed Dusty Star Forming Galaxies: Probing the Physics of Massive Galaxy Formation" **CO-I, 18 orbits + 14h Spitzer time**
2012	HST Cycle 20 GO-13001	"SDSS 0921+28: A unique lensed quasar system" **CO-I and Budget PI, 3 orbits**;
2012	HST Cycle 20 GO-13003	"Resolving the Star Formation in Distant Galaxies" **CO-I, 107 orbits**;
2013	HST Cycle 21 GO-13337	"Resolving the Cluster-Lensed Sextuple Quasar SDSSJ2222+2745" **PI, 7 orbits**;
2013	HST Cycle 21 GO-13437	"The Morphology and Star Formation Distribution in a Big Cool Spiral LIRG" **CO-I, 3 orbits**;
2014	HST Cycle 22 GO-13639	"Resolving Lyman-alpha Emission On Physical Scales < 270 pc at $z > 4$." **CO-I, 15 orbits**;
2014	Swift	"Characterization of a Strong Lens Cluster Sample." ; **PI, 99ks**;
2015	HST Cycle 23 GO-14096	"RELICS: Reionization Lensing Cluster Survey." **CO-I, 190 orbits**;
2015	HST Cycle 23 GO-14170	"A Complete Census: Mapping the Lya Emission and Stellar Continuum in a Lensed Main-Sequence Galaxy at z=2.39 Hosting an AGN-driven Nuclear Outflow." **CO-I, 5 orbits**;
2015	HST Cycle 23 GO-14230	"The Ultimate Emission Line Diagnostics Study at z=1.4." **CO-I, 20 orbits**;
2015	HST Cycle 23 GO-14352	"Deep X-ray Observations of 3 exceptional high-z clusters of galaxies." **CO-I, 12 orbits**;

Ground Observatories (as PI)–

2010	Magellan 6.5m	Chicago, ∼2 nights
2012-16	Magellan 6.5m	Michigan, ∼30 nights
2014-15	Gemini-N 8m	∼21 h

List of Publications

Publications in Refereed Journals[1]

[55] The Frontier Fields Lens Modeling Comparison Project

Meneghetti, M., Natarajan, P., Coe, D., Contini, E., De Lucia, G., Giocoli, C., Acebron, A., Borgani, S., Bradac, M., Diego, J. M., Hoag, A., Ishigaki, M., Johnson, T. L., Jullo, E., Kawamata, R., Lam, D., Limousin, M., Liesenborgs, J., Oguri, M., Sebesta, K., **Sharon, K.**, Williams, L. L. R., & Zitrin, A., 2016, arXiv:1606.04548

[54] The Systamatics of Strong Lens Modeling Quantified: the Effects of Constraint Selection and Redshift Information on Magnification, Mass, and Multiple Image Predictability

Johnson, T. L. & **Sharon, K.**., 2016, ApJ, Submitted

[53] Spatially resolved galactic wind in lensed galaxy RCSGA 032727-132609

Bordoloi, R., Rigby, J. R., Tumlinson, J., Bayliss, M. B., **Sharon, K.**, Gladders, M. G., & Wuyts, E., 2016, MNRAS, 458, 1891

[52] SN Refsdal: Photometry and Time Delay Measurements of the First Einstein Cross Supernova

Rodney, S. A., Strolger, L.-G., Kelly, P. L., Bradač, M., Brammer, G., Filippenko, A. V., Foley, R. J., Graur, O., Hjorth, J., Jha, S. W., McCully, C., Molino, A., Riess, A. G., Schmidt, K. B., Selsing, J., **Sharon, K.**, Treu, T., Weiner, B. J., & Zitrin, A., 2016, ApJ, 820, 50

[51] "Refsdal" Meets Popper: Comparing Predictions of the Re-appearance of the Multiply Imaged Supernova Behind MACSJ1149.5+2223

Treu, T., Brammer, G., Diego, J. M., Grillo, C., Kelly, P. L., Oguri, M., Rodney, S. A., Rosati, P., Sharon K., Zitrin, A., Balestra, I., Bradač, M., Broadhurst, T., Caminha, G. B., Halkola, A., Hoag, A., Ishigaki, M., Johnson, T. L., Karman, W., Kawamata, R., Mercurio, A., Schmidt, K. B., Strolger, L.-G., Suyu, S. H., Filippenko, A. V., Foley, R. J., Jha, S. W., & Patel, B., 2016, ApJ, 817, 60

[50] The Gini Coefficient as a Tool for Image Family Idenitification in Strong Lensing Systems with Multiple Images

Florian, M. K., Gladders, M. D., Li, N., & **Sharon, K.**, 2016, ApJ, 816, L23

[49] C III] Emission in Star-forming Galaxies Near and Far

Rigby, J. R., Bayliss, M. B., Gladders, M. D., **Sharon, K.**, Wuyts, E., Dahle, H., Johnson, T., & Peña-Guerrero, M., 2015, ApJ, 814, L6

[48] A Multi-wavelength Mass Analysis of RCS2 J232727.6-020437, A $sim3\times10^{15}$ $M_\odot$ Galaxy Cluster at z = 0.7

Sharon, K., Gladders, M. D., Marrone, D. P., Hoekstra, H., Rasia, E., Bourdin, H., Gifford, D., Hicks, A. K.,

[1]Abbreviations for refereed journals: ApJ: Astrophysical Journal; AJ: Astronomical Journal; MNRAS: Monthly Notices of the Royal Astronomical Society; PASJ: Publications of the Astronomical Society of Japan; Preprints for papers in press are available through arXive at http://xxx.lanl.gov/

Greer, C., Mroczkowski, T., Barrientos, L. F., Bayliss, M., Carlstrom, J. E., Gilbank, D. G., Gralla, M., Hlavacek-Larrondo, J., Leitch, E., Mazzotta, P., Miller, C., Muchovej, S. J. C., Schrabback, T., Yee, H. K. C., & RCS-Team, 2015, ApJ, 814, 21

[47] Time Delay Measurements for the Cluster-lensed Sextuple Quasar SDSS J2222+2745
Dahle, H., Gladders, M. D., **Sharon, K.**, Bayliss, M. B., & Rigby, J. R., 2015, ApJ, 813, 67

[46] RCS2 J232727.6-020437: An Efficient Cosmic Telescope at z=0.6986
Hoag, A., Bradač, M., Huang, K. H., Ryan, R. E., Jr., **Sharon, K.**, Schrabback, T., Schmidt, K. B., Cain, B., Gonzalez, A. H., Hildebrandt, H., Hinz, J., Lemaux, B. C., von der Linden, A., Lubin, L. M., Treu, T., & Zaritsky, D., 2015, ApJ, 813, 37

[45] Illuminating a Dark Lens : A Type Ia Supernova Magnified by the Frontier Fields Galaxy Cluster Abell 2744
Rodney, S. A., Patel, B., Scolnic, D., Foley, R. J., Molino, A., Brammer, G., Jauzac, M., Bradač, M., Broadhurst, T., Coe, D., Diego, J. M., Graur, O., Hjorth, J., Hoag, A., Jha, S. W., Johnson, T. L., Kelly, P., Lam, D., McCully, C., Medezinski, E., Meneghetti, M., Merten, J., Richard, J., Riess, A., **Sharon, K.**, Strolger, L.-G., Treu, T., Wang, X., Williams, L. L. R., & Zitrin, A., 2015, ApJ, 811, 70

[44] Quantifying the Impact of Cosmological Parameter Uncertainties on Strong-lensing Models with an Eye Toward the Frontier Fields
Bayliss, M. B., **Sharon, K.**, & Johnson, T., 2015, ApJ, 802, L9

[43] Revised Lens Model for the Multiply Imaged Lensed Supernova, "SN Refsdal" in MACS J1149+2223
Sharon, K., & Johnson, T. L., 2015, ApJ, 800, L26

[42] Lens Models and Magnification Maps of the Six Hubble Frontier Fields Clusters
Johnson, T. L., **Sharon, K.**, Bayliss, M. B., Gladders, M. D., Coe, D., & Ebeling, H., 2014, ApJ, 797, 48

[41] The Mass Distribution of the Strong Lensing Cluster SDSS J1531+3414
Sharon, K., Gladders, M. D., Rigby, J. R., Wuyts, E., Bayliss, M. B., Johnson, T. L., Florian, M. K., & Dahle, H., 2014, ApJ, 795, 50

[40] A 30 kpc Chain of "Beads on a String" Star Formation between Two Merging Early Type Galaxies in the Core of a Strong-lensing Galaxy Cluster
Tremblay, G. R., Gladders, M. D., Baum, S. A., O'Dea, C. P., Bayliss, M. B., Cooke, K. C., Dahle, H., Davis, T. A., Florian, M., Rigby, J. R., **Sharon, K.**, Soto, E., & Wuyts, E., 2014, ApJ, 790, L26

[39] The Physical Conditions, Metallicity and Metal Abundance Ratios in a Highly Magnified Galaxy at z = 3.6252
Bayliss, M. B., Rigby, J. R., **Sharon, K.**, Wuyts, E., Florian, M., Gladders, M. D., Johnson, T., & Oguri, M., 2014, ApJ, 790, 144

[38] Resolved Star Formation on Sub-galactic Scales in a Merger at z = 1.7

Whitaker, K. E., Rigby, J. R., Brammer, G. B., Gladders, M. D., **Sharon, K.**, Teng, S. H., & Wuyts, E., 2014, ApJ, 790, 143

[37] On the Lack of Correlation between Mg II 2796, 2803 Å and Lyα Emission in Lensed Star-forming Galaxies

Rigby, J. R., Bayliss, M. B., Gladders, M. D., **Sharon, K.**, Wuyts, E., & Dahle, H., 2014, ApJ, 790, 44

[36] Line-of-sight Structure toward Strong Lensing Galaxy Clusters

Bayliss, M. B., Johnson, T., Gladders, M. D., **Sharon, K.**, & Oguri, M., 2014, ApJ, 783, 41

[35] Spatially resolved velocity maps of halo gas around two intermediate-redshift galaxies

Chen, H.-W., Gauthier, J.-R., **Sharon, K.**, Johnson, S. D., Nair, P., & Liang, C. J., 2014, MNRAS, 438, 1435

[34] A Magnified View of the Kinematics and Morphology of RCSGA 032727-132609: Zooming in on a Merger at z = 1.7

Wuyts, E., Rigby, J. R., Gladders, M. D., & **Sharon, K.**, 2014, ApJ, 781, 61

[33] SDSS J2222+2745: A Gravitationally Lensed Sextuple Quasar with a Maximum Image Separation of 15."1 Discovered in the Sloan Giant Arcs Survey

Dahle, H., Gladders, M. D., **Sharon, K.**, Bayliss, M. B., Wuyts, E., Abramson, L. E., Koester, B. P., Groeneboom, N., Brinckmann, T. E., Kristensen, M. T., Lindholmer, M. O., Nielsen, A., Krogager, J.-K., & Fynbo, J. P. U., 2013, ApJ, 773, 146

[32] Large gas reservoirs and free-free emission in two lensed star-forming galaxies at z = 2.7

Aravena, M., Murphy, E. J., Aguirre, J. E., Ashby, M. L. N., Benson, B. A., Bothwell, M., Brodwin, M., Carlstrom, J. E., Chapman, S. C., Crawford, T. M., de Breuck, C., Fassnacht, C. D., Gonzalez, A. H., Greve, T. R., Gullberg, B., Hezaveh, Y., Holder, G. P., Holzapfel, W. L., Keisler, R., Malkan, M., Marrone, D. P., McIntyre, V., Reichardt, C. L., **Sharon, K.**, Spilker, J. S., Stalder, B., Stark, A. A., Vieira, J. D., & Weiß, A., 2013, MNRAS, 433, 498

[31] Searching for Cooling Signatures in Strong Lensing Galaxy Clusters: Evidence Against Baryons Shaping the Matter Distribution in Cluster Cores

Blanchard, P. K., Bayliss, M. B., McDonald, M., Dahle, H., Gladders, M. D., **Sharon, K.**, & Mushotzky, R., 2013, ApJ, 772, 24

[30] ALMA Observations of SPT-discovered, Strongly Lensed, Dusty, Star-forming Galaxies

Hezaveh, Y. D., Marrone, D. P., Fassnacht, C. D., Spilker, J. S., Vieira, J. D., Aguirre, J. E., Aird, K. A., Aravena, M., Ashby, M. L. N., Bayliss, M., Benson, B. A., Bleem, L. E., Bothwell, M., Brodwin, M., Carlstrom, J. E., Chang, C. L., Chapman, S. C., Crawford, T. M., Crites, A. T., De Breuck, C., de Haan, T., Dobbs, M. A., Fomalont, E. B., George, E. M., Gladders, M. D., Gonzalez, A. H., Greve, T. R., Halverson, N. W., High, F. W., Holder, G. P., Holzapfel, W. L., Hoover, S., Hrubes, J. D., Husband, K., Hunter, T. R., Keisler, R., Lee, A. T., Leitch, E. M., Lueker, M., Luong-Van, D., Malkan, M., McIntyre, V., McMahon, J. J., Mehl, J., Menten, K. M., Meyer, S. S., Mocanu, L. M., Murphy, E. J., Natoli, T., Padin, S., Plagge, T., Reichardt, C. L.,

Rest, A., Ruel, J., Ruhl, J. E., **Sharon, K.**, Schaffer, K. K., Shaw, L., Shirokoff, E., Stalder, B., Staniszewski, Z., Stark, A. A., Story, K., Vanderlinde, K., Weiß, A., Welikala, N., & Williamson, R., 2013, ApJ, 767, 132

[29] Dusty starburst galaxies in the early Universe as revealed by gravitational lensing

Vieira, J. D., Marrone, D. P., Chapman, S. C., De Breuck, C., Hezaveh, Y. D., Weiβ, A., Aguirre, J. E., Aird, K. A., Aravena, M., Ashby, M. L. N., Bayliss, M., Benson, B. A., Biggs, A. D., Bleem, L. E., Bock, J. J., Bothwell, M., Bradford, C. M., Brodwin, M., Carlstrom, J. E., Chang, C. L., Crawford, T. M., Crites, A. T., de Haan, T., Dobbs, M. A., Fomalont, E. B., Fassnacht, C. D., George, E. M., Gladders, M. D., Gonzalez, A. H., Greve, T. R., Gullberg, B., Halverson, N. W., High, F. W., Holder, G. P., Holzapfel, W. L., Hoover, S., Hrubes, J. D., Hunter, T. R., Keisler, R., Lee, A. T., Leitch, E. M., Lueker, M., Luong-van, D., Malkan, M., McIntyre, V., McMahon, J. J., Mehl, J., Menten, K. M., Meyer, S. S., Mocanu, L. M., Murphy, E. J., Natoli, T., Padin, S., Plagge, T., Reichardt, C. L., Rest, A., Ruel, J., Ruhl, J. E., **Sharon, K.**, Schaffer, K. K., Shaw, L., Shirokoff, E., Spilker, J. S., Stalder, B., Staniszewski, Z., Stark, A. A., Story, K., Vanderlinde, K., Welikala, N., & Williamson, R., 2013, Nature, 495, 344

[28] SGAS 143845.1+145407: A Big, Cool Starburst at Redshift 0.816

Gladders, M. D., Rigby, J. R., **Sharon, K.**, Wuyts, E., Abramson, L. E., Dahle, H., Persson, S. E., Monson, A. J., Kelson, D. D., Benford, D. J., Murphy, D., Bayliss, M. B., Finkelstein, K. D., Koester, B. P., Bans, A., Baxter, E. J., & Helsby, J. E., 2013, ApJ, 764, 177

[27] Submillimeter Observations of Millimeter Bright Galaxies Discovered by the South Pole Telescope

Greve, T. R., Vieira, J. D., Weiß, A., Aguirre, J. E., Aird, K. A., Ashby, M. L. N., Benson, B. A., Bleem, L. E., Bradford, C. M., Brodwin, M., Carlstrom, J. E., Chang, C. L., Chapman, S. C., Crawford, T. M., de Breuck, C., de Haan, T., Dobbs, M. A., Downes, T., Fassnacht, C. D., Fazio, G., George, E. M., Gladders, M., Gonzalez, A. H., Halverson, N. W., Hezaveh, Y., High, F. W., Holder, G. P., Holzapfel, W. L., Hoover, S., Hrubes, J. D., Johnson, M., Keisler, R., Knox, L., Lee, A. T., Leitch, E. M., Lueker, M., Luong-Van, D., Malkan, M., Marrone, D. P., McIntyre, V., McMahon, J. J., Mehl, J., Menten, K. M., Meyer, S. S., Montroy, T., Murphy, E. J., Natoli, T., Padin, S., Plagge, T., Pryke, C., Reichardt, C. L., Rest, A., Rosenman, M., Ruel, J., Ruhl, J. E., Schaffer, K. K., **Sharon, K.**, Shaw, L., Shirokoff, E., Stalder, B., Stanford, S. A., Staniszewski, Z., Stark, A. A., Story, K., Vanderlinde, K., Walsh, W., Welikala, N., & Williamson, R., 2012, ApJ, 756, 101

[26] Constraints on the Low-mass End of the Mass-Metallicity Relation at z = 1-2 from Lensed Galaxies

Wuyts, E., Rigby, J. R., **Sharon, K.**, & Gladders, M. D., 2012, ApJ, 755, 73

[25] Spatially Resolved HST Grism Spectroscopy of a Lensed Emission Line Galaxy at z ˜ 1

Frye, B. L., Hurley, M., Bowen, D. V., Meurer, G., **Sharon, K.**, Straughn, A., Coe, D., Broadhurst, T., & Guhathakurta, P., 2012, ApJ, 754, 17

[24] Combined strong and weak lensing analysis of 28 clusters from the Sloan Giant Arcs Survey

Oguri, M., Bayliss, M. B., Dahle, H., **Sharon, K.**, Gladders, M. D., Natarajan, P., Hennawi, J. F., & Koester,

B. P., 2012, MNRAS, 420, 3213

[23] Source-plane Reconstruction of the Bright Lensed Galaxy RCSGA 032727-132609
Sharon, K., Gladders, M. D., Rigby, J. R., Wuyts, E., Koester, B. P., Bayliss, M. B., & Barrientos, L. F., 2012, ApJ, 746, 161

[22] Stellar Populations of Highly Magnified Lensed Galaxies: Young Starbursts at z ˜ 2
Wuyts, E., Rigby, J. R., Gladders, M. D., Gilbank, D. G., **Sharon, K.**, Gralla, M. B., & Bayliss, M. B., 2012, ApJ, 745, 86

[21] Sunyaev-Zel'dovich Effect Observations of Strong Lensing Galaxy Clusters: Probing the Over-concentration Problem
Gralla, M. B., **Sharon, K.**, Gladders, M. D., Marrone, D. P., Barrientos, L. F., Bayliss, M., Bonamente, M., Bulbul, E., Carlstrom, J. E., Culverhouse, T., Gilbank, D. G., Greer, C., Hasler, N., Hawkins, D., Hennessy, R., Joy, M., Koester, B., Lamb, J., Leitch, E., Miller, A., Mroczkowski, T., Muchovej, S., Oguri, M., Plagge, T., Pryke, C., & Woody, D., 2011, ApJ, 737, 74

[20] The Physical Conditions of a Lensed Star-forming Galaxy at z = 1.7
Rigby, J. R., Wuyts, E., Gladders, M. D., **Sharon, K.**, & Becker, G. D., 2011, ApJ, 732, 59

[19] Gemini/GMOS Spectroscopy of 26 Strong-lensing-selected Galaxy Cluster Cores
Bayliss, M. B., Hennawi, J. F., Gladders, M. D., Koester, B. P., Sharon, K., Dahle, H., & Oguri, M., 2011, ApJS, 193, 8

[18] The Redshift Distribution of Giant Arcs in the Sloan Giant Arcs Survey
Bayliss, M. B., Gladders, M. D., Oguri, M., Hennawi, J. F., **Sharon, K.**, Koester, B. P., & Dahle, H., 2011, ApJ, 727, L26

[17] A Bright, Spatially Extended Lensed Galaxy at z = 1.7 Behind the Cluster RCS2 032727-132623
Wuyts, E., Barrientos, L. F., Gladders, M. D., **Sharon, K.**, Bayliss, M. B., Carrasco, M., Gilbank, D., Yee, H. K. C., Koester, B. P., & Muñoz, R., 2010, ApJ, 724, 1182

[16] Two Lensed z ≃ 3 Lyman Break Galaxies Discovered in the SDSS Giant Arcs Survey
Koester, B. P., Gladders, M. D., Hennawi, J. F., **Sharon, K.**, Wuyts, E., Rigby, J. R., Bayliss, M. B., & Dahle, H., 2010, ApJ, 723, L73

[15] The Supernova Delay Time Distribution in Galaxy Clusters and Implications for Type-Ia Progenitors and Metal Enrichment
Maoz, D., **Sharon, K.**, & Gal-Yam, A., 2010, ApJ, 722, 1879

[14] Two Lensed Lyman-α Emitting Galaxies at z˜ 5
Bayliss, M. B., Wuyts, E., **Sharon, K.**, Gladders, M. D., Hennawi, J. F., Koester, B. P., & Dahle, H., 2010, ApJ, 720, 1559

[13] The Type Ia Supernova Rate in Redshift 0.5-0.9 Galaxy Clusters

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