Dawn Erb

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Research Interests _____

Galaxy formation and evolution

Assistant Professor, Department of Physics

Low mass galaxies at all redshifts

Evolution of the circumgalactic and intergalactic medium at high redshift

Chemical evolution, kinematics and stellar populations of galaxies at high redshift

Feedback processes in starburst galaxies

Gas ejection and accretion in high redshift galaxies

Employment _____

University of Wisconsin-Milwaukee Milwaukee Milwaukee, WI

Professor, Department of Physics 2021 –

University of Wisconsin-Milwaukee Milwaukee Milwaukee, WI

Associate Professor, Department of Physics 2014 – 2021

University of Wisconsin-Madison Madison, WI

Visiting Associate Professor, Department of Astronomy 2014 – present

Stockholm University Stockholm, Sweden

Visiting Professor, Department of Astronomy 2018

University of Wisconsin-Milwaukee Milwaukee, WI

University of Wisconsin-Madison Madison, WI

2010 - 2014

Visiting Assistant Professor, Department of Astronomy 2010 – 2014

University of California Santa Barbara Santa Barbara Santa Barbara, CA

Spitzer Postdoctoral Fellow 2008 – 2010

Harvard-Smithsonian Center for Astrophysics Cambridge, MA

CfA Postdoctoral Fellow 2005 – 2008

Education

California Institute of Technology Pasadena, CA

Ph.D. Astrophysics 2005

• "The Properties of Star-Forming Galaxies at z~2: Kinematics, Stellar Populations, and Metallicities" — Research Advisor: Professor Charles C. Steidel

University of Washington Seattle, WA

B.S. Physics, Summa cum laude

B.S. Astronomy, Summa cum laude

Grants and Proposals _____

Total extramural funding \$1,675,000

National Science Foundation \$381,351

The Extreme Galaxy Reference Sample: Low Metallicity Galaxies Across Cosmic Time 2019

UWM Research Growth Initiative \$73,000

The Extreme Census of the Local Universe: The Most Highly Ionized Galaxies in the Northern Sky

2019

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NACA Kada PLP ata Assauda	A10.4.000.4.4.1
NASA Keck PI Data Awards 13 nights (KCWI, LRIS, MOSFIRE, ESI, DEIMOS)	\$124,800 total 2013 – 2021
UWM Collaborative Research Team Development Award	\$14,770
The Milwaukee Urban Observatory	2018 – 2020
Space Telescope Science Institute	3 orbits, \$50,972
The Brightest Lens in the Sky: Stellar Populations on ~50 pc Scales at the Peak Epoch of Star Formation	Hubble Space Telescope Cycle 25 (2017)
Space Telescope Science Institute <i>Lyman-alpha Imaging at ~20 pc Resolution in a Low Mass Lensed Galaxy at z=1.85</i>	7 orbits, \$62,595 Hubble Space Telescope Cycle 24 (2016)
Space Telescope Science Institute	20 orbits, UWM budget \$113,360
The Evolution of C/O in Low Metallicity Dwarf Galaxies (PI Danielle Berg)	Hubble Space Telescope Cycle 24 (2016)
Space Telescope Science Institute Stellar Populations and Physical Conditions at ~100 pc Resolution in a Lensed Galaxy at z~4 (PI Danielle Berg)	2 orbits, \$7,625 Hubble Space Telescope Cycle 23 (2015)
National Science Foundation Early Career Award CAREER: The Early Stages of Galaxy Evolution	\$779,965 2013
Space Telescope Science Institute	26 orbits, UWM budget \$18,000
Gaseous outflows from low mass galaxies: Understanding local laboratories for high redshift star formation (PI Alaina Henry)	Hubble Space Telescope Cycle 20 (2012)
NASA Herschel Science Center	UWM budget \$9,647
The Herschel Proto-cluster Survey: SPIRE Mapping of the Nodes of the Cosmic Web at z>2 (PI Yuichi Matsuda)	OT2 (2012)
Space Telescope Science Institute	30 orbits, UWM budget \$93,000
The Bottom of the Iceberg: Faint z~2 Galaxies and the Enrichment of the IGM	Hubble Space Telescope Cycle 19 (2011)
Space Telescope Science Institute	248 orbits, UWM budget \$42,000
3D-HST: A Spectroscopic Galaxy Evolution Treasury (PI Pieter van Dokkum)	Hubble Space Telescope Cycle 18 (2010)
UWM Research Growth Initiative	\$307,000
The Youngest Galaxies in the Young Universe	2010
Awards and Honors	
Research Mentor of the Year, UWM Office of Undergraduate Research	2020
Wenner-Gren Foundation Visiting Researcher Award, Stockholm University	2018
Kavli Fellow, National Academy of Sciences Kavli Frontiers of Science	2018
UWM Research Foundation Award	2017
Spitzer Fellowship	2008
Center for Astrophysics Fellowship	2005
Baer Prize in Astronomy	University of Washington, 2000
Higgs-Osborn Prize in Experimental Physics	University of Washington, 2000
Professional Service and Appointments	
Gemini Telescope Board of Directors	2017 – 2019
Hubble Space Telescope Users Committee	2015 – 2019
Associate Editor, Publications of the Astronomical Society of Australia	2013 – 2015

2006, 2010, 2013, 2016, 2019 (chair)

Hubble Space Telescope review panel

NSF review panel	2007, 2008, 2010, 2013, 2020
NOAO telescope allocation committee	2012 – 2015
Spitzer Space Telescope review panel	2010, 2011 (panel chair)
NASA Postdoctoral Program review	2011
NRAO proposal review	2007 – 2008
Peer review	2004 – present
Nature, Science, The Astrophysical Journal, The Astrophysical Journal Letters,	
The Astronomical Journal, Monthly Notices of the Royal Astronomical Society,	
Astronomy & Astrophysics, Publications of the Astronomical Society of the Pacific	
Students and Postdocs Supervised	
Undergraduate:	
Claire Bolda	2021 –
Ly $lpha$ Emission and Large Scale Structure at $z\sim 2$	
Natalie Meyers	2020
The Milwaukee Urban Observatory	
Nik Prusinksi	2017 – 2020
Star Formation and Galactic Outflows at $z\sim1.5$	
Renee Spiewak	2015 – 2016
Emission Line Ratios of Galaxies from the Sloan Digital Sky Survey	
Matthew Miranda	2015
Emission Line Ratios of Galaxies from the Sloan Digital Sky Survey	
David Day	2011
Extreme Galaxies in the Sloan Digital Sky Survey	
Graduate:	
Aritra Aich	2020 –
Stellar Populations of Lensed Galaxies at High Redshift	
Prasanth Kumar	2020 –
Spectral Analysis of Low Metallicity Galaxies	
Matthew Coon	2015 – 2017
Masters thesis: "Star Formation Density and Galactic Outflows at $z\sim 2$ "	
Lindsey Whiting	2014 – 2017
Masters thesis: "Outflow Absorption Lines and Their Correlation with Galaxy Properties at $0.8 < z < 1.6$ "	
Postdoctoral:	
Annalisa Citro	2018 –
Danielle Berg	2014 - 2017

2010 - 2013

Ralf Kotulla

Teaching _____

Astronomy 103: Survey of Astronomy

Astronomy 320: Astronomy II: Extragalactic Astronomy and Cosmology

Astronomy 401: Astrophysics II: Extragalactic Astrophysics and Cosmology

Astronomy 401/Physics 903: Astrophysics II: Extragalactic Astrophysics and Cosmology

Spring 2013, 2014, 2015, 2017, 2019, 2021

Spring 2015, 2017, 2019, 2021

Physics 817: Cosmology

Fall 2011, Spring 2014, Spring 2018, Fall 2019

Outreach _____

Advisor, UWM Astronomy Club

Maker Faire Milwaukee: Center for Gravitation, Cosmology & Astrophysics booth

Public lectures

2010 – present
2016, 2017, 2019

- Osher Lifetime Learning Institute
- UWM Science Bag
- Wehr Astronomical Society
- NCRAL 2014: Gazing at the Stars
- James Madison High School, Milwaukee
- Milwaukee Astronomical Society
- Vieau School, Milwaukee

Invited Conference Presentations _____

Escape of Lyman radiation from galactic labyrinths, Kolymbari, Crete, Greece

Mapping the circumgalactic medium with Ly $lpha$ emission	September 2019
GMT Community Science Meeting, Carlsbad, CA	
Small galaxies, big halos: Ly α emission in the CGM of low-mass galaxies at z~2	July 2019
Small Galaxies, Cosmic Questions, Durham, UK	
Lyα Emission and the Circumgalactic Medium in Low Mass Galaxies	June 2019
What matter(s) between galaxies, Spineto, Italy	
Lyα Emission and the Circumgalactic Medium in Low Mass Galaxies	September 2018
Escape of Lyman radiation from galactic labyrinths, Kolymbari, Crete, Greece	
Lyα Emission in Low Metallicity Galaxies at z~2	March 2018
Tokyo Spring Sakura Cosmic Ly $lpha$ Workshop, University of Tokyo	
Observing Outflows at High Redshifts	October 2017
Characterizing Galaxies with Spectroscopy with a view for JWST, Lorentz Center, Leiden, Netherlands	
Star Formation and Feedback in Low Metallicity Galaxies at z~2	April 2017
Keynote presentation, MidAmerican Regional Astrophysics Conference, University of Kansas	
The Rest-Frame UV Spectra of Low Mass Galaxies at z~2	July 2016
32nd Institut d'Astrophysique de Paris Colloquium, Cosmic dawn of galaxy formation: linking observations and theory with	
new-generation spectral models. Paris	
Lyα Profiles and Lyman Continuum Emission in Star-Forming Galaxies	April 2016

The physical conditions in young, low metallicity galaxies at high redshift	July 2015
Understanding Nebular Emission in High Redshift Galaxies, Pasadena, CA	July 2015
Galactic Outflows and Galactic Structure at z~2	July 2014
Good Sense and Dominant Ideology in Galaxy Formation and Evolution, Ascona, Switzerland	July 2014
Gas Flows and Galaxy Formation	January 2013
Plenary talk, 221st Meeting of the American Astronomical Society, Long Beach, CA	Juliuary 2013
Rising Star Formation Histories and the Evolution of the Mass-Metallicity Relation	July 2012
Galaxies: Insight Out, Leiden, the Nethelands	July 2012
Rising Star Formation Histories and the Evolution of the Mass-Metallicity Relation	June 2012
Metals in Tuscany, Spineto, Italy	Julie 2012
Chemical Abundances in Star-Forming Galaxies at High Redshift	August 2009
International Astronomical Union Symposium 265, Rio de Janeiro	August 2009
Star Formation and Chemical Enrichment in the Youngest Galaxies	July 2009
SFR@50, Spineto, Italy	July 2003
The Mass-Dependent Spectral Properties of High Redshift Galaxies	February 2009
Napa Valley Galaxy Evolution Workshop, Napa, CA	rebruary 2005
Galaxy Metallicity in the Redshift Desert	July 2009
Harvesting the Desert: The Universe Between Redshifts 1 and 3, Marseille	July 2003
Observing Distant Galaxies with the GMT	March 2008
Science with the Giant Magellan Telescope, Australian National University, Canberra, Australia	march 2000
Gas Masses and Gas Fractions: Applications of the Kennicutt-Schmidt Law at High Redshift	December 2006
University of California San Diego Kennicutt-Schmidt Workshop	
Galactic Winds, Galaxy Masses and Metallicities at 1 <z<3: an="" observational="" perspective<="" td=""><td>July 2006</td></z<3:>	July 2006
Chemodynamics: From First Stars to Local Galaxies, Lyon, France	
Colloquia and Seminars	
New York University	March 2019
University of Oslo	December 2018
University of Geneva	November 2018
University of Copenhagen	November 2018
Stockholm University	September 2018
University of Kansas	April 2017
University of Toronto	December 2016
University of Wisconsin Madison	September 2016
University of Arizona	March 2016
University of Washington	March 2016
Ohio State University	March 2016
Arizona State University	September 2015
Northwestern University	April 2015
Space Telescope Science Institute	March 2014
University of Virginia/NRAO	September 2013
University of Minnesota	April 2013

University of Texas Austin	March 2013
University of Wisconsin Madison	February 2013
Cornell University	November 2012
University of Notre Dame	March 2012
Indiana University	November 2011
Northwestern University	April 2010
University of Wisconsin Madison	April 2010
University of Chicago	October 2009
Texas A&M University	September 2009
University of Wisconsin Milwaukee	March 2009
Princeton University	February 2009
University of Massachusetts Amherst	October 2008
Carnegie Observatories	March 2008
Harvard University	March 2008
Ohio State University	February 2008
University of Utah	January 2008
University of Michigan	January 2008
University of California San Diego	January 2008
Harvard University	February 2007
Space Telescope Science Institute	February 2007
University of California Los Angeles	February 2007
University of Central Lancashire, Preston, UK	July 2006
University of California Santa Cruz	May 2006
University of Toronto	February 2006

Refereed Publications

Total citations 14,373
Total citations to first author papers 2,662
h-index 54

- 82. "Characterizing Extreme Emission Line Galaxies I: A Four-Zone Ionization Model for Very-High-Ionization Emission." Berg, D. A., Chisholm, J., **Erb, D. K.**, Skillman, E. D., Pogge, R. W., Olivier, G. M. 2021, Astrophysical Journal, in press
- 81. "The Geometry of Cold, Metal-enriched Gas around Galaxies at z ~ 1.2." Lundgren, B. F., Creech, S., Brammer, G., Kirse, N., Peek, M., Wake, D., York, D. G., Chisholm, J., **Erb, D. K.**, Kulkarni, V. P., Straka, L., Tremonti, C., van Dokkum, P. 2021, Astrophysical Journal, 913, 50
- 80. "Connecting Galactic Outflows and Star Formation: Inferences from Hα Maps and Absorption-line Spectroscopy at 1 ≤ z ≤ 1.5." Prusinski, N. Z., **Erb, D. K.**, Martin, C. L. 2021, Astronomical Journal, 161, 212
- 79. "The KBSS-KCWI Survey: The connection between extended Ly α halos and galaxy azimuthal angle at $z\sim 2-3$." Chen, Y., Steidel, C. C., **Erb, D. K**, Law, D. R., Trainor, R. F., Reddy, N. A., Shapley, A. E., Pahl, A. J., Strom, A. L., Lamb, N. R., Li, Z., Rudie, G. C. 2021, Monthly Notices of the Royal Astronomical Society, in press
- 78. "Ultrafaint [C II] Emission in a Redshift = 2 Gravitationally Lensed Metal-poor Dwarf Galaxy." Rybak, M., da Cunha, E., Groves, B., Hodge, J. A., Aravena, M., Maseda, M., Boogaard, L., Berg, D., Charlot, S., Decarli, R., **Erb, D. K.**, Nelson, E., Pacifici, C., Schmidt, K. B., Walter, F., van der Wel, A. 2021, Astrophysical Journal, 909, 130
- 77. "The Keck Baryonic Structure Survey: using foreground/background galaxy pairs to trace the structure and kinematics of circumgalactic neutral hydrogen at z ~ 2." Chen, Y., Steidel, C. C., Hummels, C. B., Rudie, G. C., Dong, B., Trainor, R. F., Bogosavljević, M., **Erb, D. K.**, Pettini, M., Reddy, N. A., Shapley, A. E., Strom, A. L., Theios, R. L., Faucher-Giguère, C.-A., Hopkins, P. F., Kereš, D. 2020, Monthly Notices of the Royal Astronomical Society, 499, 1721
- 76. "Subkiloparsec Imaging of Lyα Emission in a Low-mass, Highly Ionized, Gravitationally Lensed Galaxy at z=1.84." Erb, D. K.,

- Berg, D. A., Auger, M. W., Kaplan, D. L., Brammer, G., & Pettini, M. 2019, Astrophysical Journal, 884, 7
- 75. "Intense C IV and He II Emission in z~0 Galaxies: Probing High-energy Ionizing Photons." Berg, D. A., Chisholm, J., **Erb, D. K.**, Pogge, R., Henry, A., & Olivier, G. M. 2019, Astrophysical Journal Letters, 878, L3
- 74. "The Chemical Evolution of Carbon, Nitrogen, and Oxygen in Metal-poor Dwarf Galaxies." Berg, D. A., **Erb, D. K.**, Henry, R. B. C., Skillman, E. D., & McQuinn, K. B. W. 2019, Astrophysical Journal, 874, 93
- 73. "The Kinematics of Extended Lyα Emission in a Low-mass, Low-metallicity Galaxy at z=2.3." **Erb, D. K.**, Steidel, C. C., & Chen, Y. 2018, Astrophysical Journal Letters, 862, L10
- 72. "A Window on the Earliest Star Formation: Extreme Photoionization Conditions of a High-ionization, Low-metallicity Lensed Galaxy at z~2." Berg, D. A., **Erb, D. K.**, Auger, M. W., Pettini, M., & Brammer, G. B. 2018, Astrophysical Journal, 859, 164
- 71. "The Redshift Evolution of Rest-UV Spectroscopic Properties in Lyman-break Galaxies at z~2–4." Du, X., Shapley, A. E., Reddy, N. A., Jones, T., Stark, D. P., Steidel, C. C., Strom, A. L., Rudie, G. C., **Erb, D. K.**, Ellis, R. S., & Pettini, M. 2018, Astrophysical Journal, 860. 75
- 70. "A Close Relationship between Lyα and Mg II in Green Pea Galaxies." Henry, A., Berg, D. A., Scarlata, C., Verhamme, A., & **Erb, D.** 2018, Astrophysical Journal, 855, 96
- 69. "A High Fraction of Lyα Emitters among Galaxies with Extreme Emission Line Ratios at z~2." **Erb, D. K.**, Pettini, M., Steidel, C. C., Strom, A. L., Rudie, G. C., Trainor, R. F., Shapley, A. E., & Reddy, N. A. 2016, Astrophysical Journal, 830, 52
- 68. "Carbon and Oxygen Abundances in Low Metallicity Dwarf Galaxies." Berg, D. A., Skillman, E. D., Henry, R. B. C., **Erb, D. K.**, & Carigi, L. 2016, Astrophysical Journal, 827, 126
- 67. "Herschel protocluster survey: a search for dusty star-forming galaxies in protoclusters at z=2–3." Kato, Y., Matsuda, Y., Smail, I., Swinbank, A. M., Hatsukade, B., Umehata, H., Tanaka, I., Saito, T., Iono, D., Tamura, Y., Kohno, K., **Erb, D. K.**, Lehmer, B. D., Geach, J. E., Steidel, C. C., Alexander, D. M., Yamada, T., & Hayashino, T. 2016, Monthly Notices of the Royal Astronomical Society, 460, 3861
- 66. "Lyα Emission from Green Peas: The Role of Circumgalactic Gas Density, Covering, and Kinematics." Henry, A., Scarlata, C., Martin, C. L., & **Erb, D.** 2015, Astrophysical Journal, 809, 19
- 65. "Feedback in low-mass galaxies in the early Universe." Erb, D. K. 2015, Nature, 523, 169
- 64. "Strong Nebular Line Ratios in the Spectra of z~2–3 Star Forming Galaxies: First Results from KBSS-MOSFIRE." Steidel, C. C., Rudie, G. C., Strom, A. L., Pettini, M., Reddy, N. A., Shapley, A. E., Trainor, R. F., **Erb, D. K.**, Turner, M. L., Konidaris, N. P., Kulas, K. R., Mace, G., Matthews, K., & McLean, I. S. 2014, Astrophysical Journal, 795, 165
- 63. "The Lyα Properties of Faint Galaxies at z~2–3 with Systemic Redshifts and Velocity Dispersions from Keck-MOSFIRE." **Erb, D. K.**, Steidel, C. C., Trainor, R. F., Bogosavljević, M., Shapley, A. E., Nestor, D. B., Kulas, K. R., Law, D. R., Strom, A. L., Rudie, G. C., Reddy, N. A., Pettini, M., Konidaris, N. P., Mace, G., Matthews, K., & McLean, I. S. 2014, Astrophysical Journal, 795, 33
- 62. "Large-scale Star-formation-driven Outflows at 1<z<2 in the 3D-HST Survey." Lundgren, B. F., Brammer, G., van Dokkum, P., Bezanson, R., Franx, M., Fumagalli, M., Momcheva, I., Nelson, E., Skelton, R. E., Wake, D., Whitaker, K., da Cunha, E., **Erb, D. K.**, Fan, X., Kriek, M., Labbé, I., Marchesini, D., Patel, S., Rix, H. W., Schmidt, K., & van der Wel, A. 2012, Astrophysical Journal, 760, 49
- 61. "Stellar Populations of Ultraviolet-selected Active Galactic Nuclei Host Galaxies at z~2–3." Hainline, K. N., Shapley, A. E., Greene, J. E., Steidel, C. C., Reddy, N. A., & **Erb, D. K.** 2012, Astrophysical Journal, 760, 74
- 60. "A HST/WFC3-IR Morphological Survey of Galaxies at z=1.5-3.6. II. The Relation between Morphology and Gas-phase Kinematics." Law, D. R., Steidel, C. C., Shapley, A. E., Nagy, S. R., Reddy, N. A., & **Erb, D. K.** 2012, Astrophysical Journal, 759, 29
- 59. "Galactic Outflows in Absorption and Emission: Near-ultraviolet Spectroscopy of Galaxies at 1<z<2." **Erb, D. K.**, Quider, A. M., Henry, A. L., & Martin, C. L. 2012, Astrophysical Journal, 759, 26
- 58. "3D-HST Grism Spectroscopy of a Gravitationally Lensed, Low-metallicity Starburst Galaxy at z=1.847." Brammer, G. B., Sánchez-Janssen, R., Labbé, I., da Cunha, E., **Erb, D. K.**, Franx, M., Fumagalli, M., Lundgren, B., Marchesini, D., Momcheva, I., Nelson, E., Patel, S., Quadri, R., Rix, H.-W., Skelton, R. E., Schmidt, K. B., van der Wel, A., van Dokkum, P. G., Wake, D. A., & Whitaker, K. E. 2012, Astrophysical Journal Letters, 758, L17
- 57. "A Census of Oxygen in Star-forming Galaxies: An Empirical Model Linking Metallicities, Star Formation Rates, and Outflows." Zahid, H. J., Dima, G. I., Kewley, L. J., **Erb, D. K.**, & Davé, R. 2012, Astrophysical Journal, 757, 54
- 56. "High velocity dispersion in a rare grand-design spiral galaxy at redshift z=2.18." Law, D. R., Shapley, A. E., Steidel, C. C., Reddy, N. A., Christensen, C. R., & **Erb, D. K.** 2012, Nature, 487, 338
- 55. "The Characteristic Star Formation Histories of Galaxies at Redshifts z~2–7." Reddy, N. A., Pettini, M., Steidel, C. C., Shapley, A. E., **Erb, D. K.**, & Law, D. R. 2012, Astrophysical Journal, 754, 25
- 54. "3D-HST: A Wide-field Grism Spectroscopic Survey with the Hubble Space Telescope." Brammer, G. B., van Dokkum, P. G., Franx,

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- M., Fumagalli, M., Patel, S., Rix, H.-W., Skelton, R. E., Kriek, M., Nelson, E., Schmidt, K. B., Bezanson, R., da Cunha, E., **Erb, D. K.**, Fan, X., Förster Schreiber, N., Illingworth, G. D., Labbé, I., Leja, J., Lundgren, B., Magee, D., Marchesini, D., McCarthy, P., Momcheva, I., Muzzin, A., Quadri, R., Steidel, C. C., Tal, T., Wake, D., Whitaker, K. E., & Williams, A. 2012, Astrophysical Journals, 200, 13
- 53. "The Gaseous Environment of High-z Galaxies: Precision Measurements of Neutral Hydrogen in the Circumgalactic Medium of z~2–3 Galaxies in the Keck Baryonic Structure Survey." Rudie, G. C., Steidel, C. C., Trainor, R. F., Rakic, O., Bogosavljević, M., Pettini, M., Reddy, N., Shapley, A. E., **Erb, D. K.**, & Law, D. R. 2012, Astrophysical Journal, 750, 67
- 52. "An HST/WFC3-IR Morphological Survey of Galaxies at z=1.5-3.6. I. Survey Description and Morphological Properties of Starforming Galaxies." Law, D. R., Steidel, C. C., Shapley, A. E., Nagy, S. R., Reddy, N. A., & **Erb, D. K.** 2012, Astrophysical Journal, 745, 85
- 51. "First Results from the 3D-HST Survey: The Striking Diversity of Massive Galaxies at z>1." van Dokkum, P. G., Brammer, G., Fumagalli, M., Nelson, E., Franx, M., Rix, H.-W., Kriek, M., Skelton, R. E., Patel, S., Schmidt, K. B., Bezanson, R., Bian, F., da Cunha, E., **Erb, D. K.**, Fan, X., Förster Schreiber, N., Illingworth, G. D., Labbé, I., Lundgren, B., Magee, D., Marchesini, D., McCarthy, P., Muzzin, A., Quadri, R., Steidel, C. C., Tal, T., Wake, D., Whitaker, K. E., & Williams, A. 2011, Astrophysical Journal Letters, 743, L15
- 50. "Filamentary Large-scale Structure Traced by Six Lyα Blobs at z=2.3." **Erb, D. K.**, Bogosavljević, M., & Steidel, C. C. 2011, Astrophysical Journal Letters, 740, L31
- 49. "Constraints on the Assembly and Dynamics of Galaxies. II. Properties of Kiloparsec-scale Clumps in Rest-frame Optical Emission of z~2 Star-forming Galaxies." Förster Schreiber, N. M., Shapley, A. E., Genzel, R., Bouché, N., Cresci, G., Davies, R., **Erb, D. K.**, Genel, S., Lutz, D., Newman, S., Shapiro, K. L., Steidel, C. C., Sternberg, A., & Tacconi, L. J. 2011, Astrophysical Journal, 739, 45
- 48. "Diffuse Lyα Emitting Halos: A Generic Property of High-redshift Star-forming Galaxies." Steidel, C. C., Bogosavljević, M., Shapley, A. E., Kollmeier, J. A., Reddy, N. A., **Erb, D. K.**, & Pettini, M. 2011, Astrophysical Journal, 736, 160
- 47. "Constraints on the Assembly and Dynamics of Galaxies. I. Detailed Rest-frame Optical Morphologies on Kiloparsec Scale of z~2 Star-forming Galaxies." Förster Schreiber, N. M., Shapley, A. E., **Erb, D. K.**, Genzel, R., Steidel, C. C., Bouché, N., Cresci, G., & Davies, R. 2011, Astrophysical Journal, 731, 65
- 46. "Excess AGN activity in the z=2.30 Protocluster in HS 1700+64." Digby-North, J. A., Nandra, K., Laird, E. S., Steidel, C. C., Georgakakis, A., Bogosavljević, M., **Erb, D. K.**, Shapley, A. E., Reddy, N. A., & Aird, J. 2010, Monthly Notices of the Royal Astronomical Society, 407, 846
- 45. "Physical Conditions in a Young, Unreddened, Low-metallicity Galaxy at High Redshift." **Erb, D. K.**, Pettini, M., Shapley, A. E., Steidel, C. C., Law, D. R., & Reddy, N. A. 2010, Astrophysical Journal, 719, 1168
- 44. "The Structure and Kinematics of the Circumgalactic Medium from Far-ultraviolet Spectra of z~2–3 Galaxies." Steidel, C. C., **Erb, D. K.**, Shapley, A. E., Pettini, M., Reddy, N., Bogosavljević, M., Rudie, G. C., & Rakic, O. 2010, Astrophysical Journal, 717, 289
- 43. "Dust Obscuration and Metallicity at High Redshift: New Inferences from UV, Hα, and 8 μm Observations of z~2 Star-forming Galaxies." Reddy, N. A., **Erb, D. K.**, Pettini, M., Steidel, C. C., & Shapley, A. E. 2010, Astrophysical Journal, 712, 1070
- 42. "The Relationship between Stellar Populations and Lyα Emission in Lyman Break Galaxies." Kornei, K. A., Shapley, A. E., **Erb, D. K.**, Steidel, C. C., Reddy, N. A., Pettini, M., & Bogosavljević, M. 2010, Astrophysical Journal, 711, 693
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