

Nicholas A. Bond - Publications

JOURNAL ARTICLES IN PREPARATION

- [1] **Bond, N. A.**, M. Strauss, and R. Cen. Crawling the Cosmic Network: Identifying and Quantifying Filamentary Structure. In preparation, draft available at <http://www.astro.princeton.edu/~nbond/paper2.pdf>.

REFEREED JOURNAL ARTICLES

- [1] **Bond, N. A.**, Z. Ivezić, B. Sesar, M. Jurić, and J. Munn. The Milky Way Tomography with SDSS: III. Stellar Kinematics. *submitted to Astrophys. J.*, August 2009.
- [2] **Bond, N. A.**, E. Gawiser, C. Gronwall, R. Ciardullo, M. Altmann, and K. Schawinski. Sizes of Lyman-Alpha-Emitting Galaxies and Their Rest-Frame Ultraviolet Components at $z=3.1$. *accepted to Astrophys. J. (in press)*, July 2009.
- [3] **Bond, N. A.**, M. Strauss, and R. Cen. Crawling the Cosmic Network: Exploring the Morphology of Structure in the Galaxy Distribution. *submitted to Astrophys. J.*, March 2009.
- [4] Ž. Ivezić, B. Sesar, M. Jurić, **Bond, N. A.**, J. Dalcanton, C. M. Rockosi, B. Yanny, H. J. Newberg, T. C. Beers, C. Allende Prieto, R. Wilhelm, Y. S. Lee, T. Sivarani, J. E. Norris, C. A. L. Bailer-Jones, P. Re Fiorentin, D. Schlegel, A. Uomoto, R. H. Lupton, G. R. Knapp, J. E. Gunn, K. R. Covey, J. A. Smith, G. Miknaitis, M. Doi, M. Tanaka, M. Fukugita, S. Kent, D. Finkbeiner, J. A. Munn, J. R. Pier, T. Quinn, S. Hawley, S. Anderson, F. Kiuchi, A. Chen, J. Bushong, H. Sohi, D. Haggard, A. Kimball, J. Barentine, H. Brewington, M. Harvanek, S. Kleinman, J. Krzesinski, D. Long, A. Nitta, S. Snedden, B. Lee, H. Harris, J. Brinkmann, D. P. Schneider, and D. G. York. The Milky Way Tomography with SDSS. II. Stellar Metallicity. *Astrophys. J.*, 684:287–325, September 2008.
- [5] M. Jurić, Ž. Ivezić, A. Brooks, R. H. Lupton, D. Schlegel, D. Finkbeiner, N. Padmanabhan, **Bond, N. A.**, B. Sesar, C. M. Rockosi, G. R. Knapp, J. E. Gunn, T. Sumi, D. P. Schneider, J. C. Barentine, H. J. Brewington, J. Brinkmann, M. Fukugita, M. Harvanek, S. J. Kleinman, J. Krzesinski, D. Long, E. H. Nielsen, Jr., A. Nitta, S. A. Snedden, and D. G. York. The Milky Way Tomography with SDSS. I. Stellar Number Density Distribution. *Astrophys. J.*, 673:864–914, February 2008.
- [6] B. Sesar, Ž. Ivezić, R. H. Lupton, M. Jurić, J. E. Gunn, G. R. Knapp, N. DeLee, J. A. Smith, G. Miknaitis, H. Lin, D. Tucker, M. Doi, M. Tanaka, M. Fukugita, J. Holtzman, S. Kent, B. Yanny, D. Schlegel, D. Finkbeiner, N. Padmanabhan, C. M. Rockosi, **Bond, N. A.**, B. Lee, C. Stoughton, S. Jester, H. Harris, P. Harding, J. Brinkmann, D. P. Schneider, D. York, M. W. Richmond, and D. Vanden Berk. Exploring the Variable Sky with the Sloan Digital Sky Survey. *Astron. J.*, 134:2236–2251, December 2007.
- [7] Ž. Ivezić, J. A. Smith, G. Miknaitis, H. Lin, D. Tucker, R. H. Lupton, J. E. Gunn, G. R. Knapp, M. A. Strauss, B. Sesar, M. Doi, M. Tanaka, M. Fukugita, J. Holtzman, S. Kent, B. Yanny, D. Schlegel, D. Finkbeiner, N. Padmanabhan, C. M. Rockosi, M. Jurić, **Bond, N. A.**, B. Lee, C. Stoughton, S. Jester, H. Harris, P. Harding, H. Morrison, J. Brinkmann, D. P. Schneider, and D. York. Sloan Digital Sky Survey Standard Star Catalog for Stripe 82: The Dawn of Industrial 1% Optical Photometry. *Astron. J.*, 134:973–998, September 2007.

- [8] B. T. Draine and **Bond, N. A.** Direct Extragalactic Distance Determination Using X-Ray Scattering. *Astrophys. J.*, 617:987–1003, December 2004.
- [9] J. C. Charlton, J. Ding, S. G. Zonak, C. W. Churchill, **Bond, N. A.**, and J. R. Rigby. High-Resolution STIS/Hubble Space Telescope and HIRES/Keck Spectra of Three Weak Mg II Absorbers toward PG 1634+706. *Astrophys. J.*, 589:111–125, May 2003.
- [10] J. Ding, J. C. Charlton, **Bond, N. A.**, S. G. Zonak, and C. W. Churchill. A Quadruple-Phase Strong Mg II Absorber at $z \sim 0.9902$ toward PG 1634+706. *Astrophys. J.*, 587:551–561, April 2003.
- [11] **Bond, N. A.**, C. W. Churchill, J. C. Charlton, and S. S. Vogt. High-Redshift Superwinds as the Source of the Strongest Mg II Absorbers: A Feasibility Analysis. *Astrophys. J.*, 562:641–648, December 2001.
- [12] **Bond, N. A.**, C. W. Churchill, J. C. Charlton, and S. S. Vogt. Evidence for Expanding Superbubbles in a Galaxy at $z=0.7443$. *Astrophys. J.*, 557:761–769, August 2001.
- [13] R. Ganguly, J. C. Charlton, and **Bond, N. A.** The Absorbers toward CSO 118: Superclustering at $Z \sim 3$, or an Intrinsic Absorption Complex? *Astrophys. J. Lett.*, 553:L101–L104, June 2001.
- [14] R. Ganguly, **Bond, N. A.**, J. C. Charlton, M. Eracleous, W. N. Brandt, and C. W. Churchill. On the Origin of Intrinsic Narrow Absorption Lines in $z \sim 1$ QSOS. *Astrophys. J.*, 549:133–154, March 2001.

PH.D. THESIS

- [1] **Bond, N. A.** *Crawling the cosmic network: An exploration of filamentary structure.* PhD thesis, School: Princeton University, 2008.

INVITED REVIEW
ARTICLES

- [1] **Bond, N. A.** Morphologies of Ly α -emitting galaxies. *New Astronomy Review*, 53:42–43, June 2009.

CONFERENCE
PROCEEDINGS

- [1] Ž. Ivezić, D. G. Monet, **Bond, N. A.**, M. Jurić, B. Sesar, J. A. Munn, R. H. Lupton, J. E. Gunn, G. R. Knapp, A. J. Tyson, P. Pinto, and K. Cook. Astrometry with digital sky surveys: from SDSS to LSST. In W. J. Jin, I. Platais, and M. A. C. Perryman, editors, *IAU Symposium*, volume 248 of *IAU Symposium*, pages 537–543, July 2008.
- [2] Ž. Ivezić, J. A. Smith, G. Miknaitis, H. Lin, D. L. Tucker, R. Lupton, G. R. Knapp, J. E. Gunn, M. Strauss, J. Holtzman, S. Kent, B. Yanny, D. Schlegel, D. Finkbeiner, N. Padmanabhan, C. Rockosi, M. Jurić, **Bond, N. A.**, B. Lee, S. Jester, H. Harris, P. Harding, J. Brinkmann, and D. York. A Comparison of SDSS Standard Star Catalog for Stripe 82 with Stetson’s Photometric Standards. In C. Sterken, editor, *The Future of Photometric, Spectrophotometric and Polarimetric Standardization*, volume 364 of *Astronomical Society of the Pacific Conference Series*, pages 165–+, April 2007.
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B. Yanny, S. Jester, S. Kent, J. Pier, J. Munn, G. Richards, H. Newberg, M. Blanton, D. Eisenstein, S. Hawley, S. Anderson, H. Harris, F. Kiuchi, A. Chen, J. Bushong, H. Sohi, D. Haggard, A. Kimball, J. Barentine, H. Brewington, M. Harvanek, S. Kleinman, J. Krzesinski, D. Long, A. Nitta, S. Snedden, and the SDSS Collaboration. SDSS spectroscopic survey of stars. *Memorie della Societa Astronomica Italiana*, 77:1057–+, 2006.

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- [5] J. C. Charlton, C. W. Churchill, J. Ding, S. Zonak, **Bond, N. A.**, and J. R. Rigby. Phase Structure of Weak MgII Absorbers: Star Forming Pockets Outside of Galaxies. In J. S. Mulchaey and J. T. Stocke, editors, *Extragalactic Gas at Low Redshift*, volume 254 of *Astronomical Society of the Pacific Conference Series*, pages 122–+, 2002.

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ABSTRACTS AND
CIRCULARS

- [1] **Bond, N. A.**, E. Gawiser, C. Gronwall, and R. Ciardullo. The Rest-ultraviolet Morphologies Of Z=3.1 Ly α Emitters In The ECDF-S. In *Bulletin of the American Astronomical Society*, volume 41 of *Bulletin of the American Astronomical Society*, pages 250–+, January 2009.
- [2] C. Gronwall, R. Ciardullo, E. Gawiser, **Bond, N. A.**, L. Guaita, and J. J. Feldmeier. Luminosity Functions and Photometric Properties of Lyman-alpha Emitters at z 3. In *Bulletin of the American Astronomical Society*, volume 41 of *Bulletin of the American Astronomical Society*, pages 247–+, January 2009.
- [3] E. J. Gawiser, J. Walker, **Bond, N. A.**, C. Gronwall, R. Ciardullo, H. Francke, P. Lira, L. Guaita, N. Padilla, J. Feldmeier, and MUSYC Collaboration. Probing the Dark Matter-Galaxy Formation Connection with Lyman Alpha Emitting Galaxies. In *Bulletin of the American Astronomical Society*, volume 41 of *Bulletin of the American Astronomical Society*, pages 290–+, January 2009.
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- [5] **Bond, N. A.**, Z. Ivezic, M. Juric, J. A. Munn, R. H. Lupton, D. Schlegel, D. Finkbeiner, C. M. Rockosi, J. R. Knapp, J. E. Gunn, and B. Yanny. Dissecting the Milky Way with SDSS - II: Stellar Kinematics. In *Bulletin of the American Astronomical Society*, volume 37 of *Bulletin of the American Astronomical Society*, pages 1384–+, December 2005.
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