



## STUDENTS ADVISED

---

Amber Almy	Undergraduate, University of Washington Pre-MAP <i>Hunting for New Supernovae and Other Variable Objects in the SDSS</i> Oct 2005 – Present
Amy Rose	Undergraduate, University of Washington Pre-MAP <i>Hunting for New Supernovae and Other Variable Objects in the SDSS</i> Oct 2005 – Present
Gregory Bravo	Bell Labs Summer Research Fellow, 2003
Julia Comerford	Bell Labs Summer Research Fellow, 2002
Marcos Lopez–Caniego	Undergraduate, <i>Strong Lensing Reconstruction of Abell 1689</i> , 2001–2003

## SELECTED TALKS

---

Mar 2006	Workshop on The Transient Universe, Kavli Institute, Santa Barbara, CA
Feb 2006	IGPP Physics Seminar, LLNL, Livermore, CA
Feb 2006	Technical Presentation at LSST Meeting, NCSA, Urbana, IL
Jan 2006	Technical Presentation at SDSS Collaboration Meeting, SLAC, Stanford, CA
Nov 2005	Astronomy Colloquium, University of Washington, Seattle, WA
Oct 2005	Undergraduate Seminar, University of Washington, Seattle, WA
Jun 2005	Technical Presentation at LSST Meeting, SLAC, Stanford, CA
Jun 2005	Team Presentation at LSST Meeting, LSST Corporation, Tucson, AZ
Mar 2005	Team Presentation at LSST Meeting, LSST Corporation, Tucson, AZ
Dec 2004	Journal Club, University of Washington, Seattle, WA
Sep 2004	LSST Conference Talk, University of Washington, Seattle, WA
Dec 2004	Team Presentation at LSST Meeting, LSST Corporation, Tucson, AZ
Sep 2004	Technical Presentation at LSST Meeting, SLAC, Stanford, CA
Jul 2004	IAU Symposium on Gravitational Lensing, Lausanne, Switzerland
Jun 2003	Tea Talk, Bell Laboratories, Murray Hill, NJ
Jun 2002	Contributed Talk, AAS Meeting, Albuquerque, NM
Jun 2002	Astronomy Journal Club, Bell Laboratories, Murray Hill, NJ
Feb 2002	REU Seminars (3), CTIO, La Serena, Chile
Jun 2001	Workshop on Wide-Field Survey Telescopes, Aspen, CO
May 2000	Candidate Talk, Bell Laboratories, Murray Hill, NJ
Oct 1999	Astronomy Seminar, CTIO, La Serena, Chile
Jan 1998	Workshop on Gravitational Microlensing, College de France, Paris, France
1995–2000	Bi–quarterly Journal Clubs, University of Washington

# REFERENCES \_\_\_\_\_ ANDREW C. BECKER

Kem Cook

Lawrence Livermore National Labs  
P.O. Box 808, MS L-413  
Livermore, CA 94550  
kcook@igpp.uclnl.org

Christopher Stubbs

Harvard University, Departments of Physics and Astronomy  
17 Oxford Street  
Cambridge, MA 02138  
cstubbs@fas.harvard.edu

J. Anthony Tyson

University of California, Davis, Department of Physics  
1 Shields Ave.  
Davis, CA 95616  
tyson@physics.ucdavis.edu

David Wittman

University of California, Davis, Department of Physics  
1 Shields Ave.  
Davis, CA 95616  
dwittman@physics.ucdavis.edu

## REFEREED PUBLICATIONS

---

- [1] A. Rest, N. B. Suntzeff, K. Olsen, J. L. Prieto, R. C. Smith, D. L. Welch, **Becker, A.**, M. Bergmann, A. Clocchiatti, K. Cook, A. Garg, M. Huber, G. Miknaitis, D. Minniti, S. Nikolaev, and C. Stubbs. Light echoes from ancient supernovae in the Large Magellanic Cloud. *Nature*, 438:1132–1134, December 2005.
- [2] A. Rest, C. Stubbs, **Becker, A. C.**, G. A. Miknaitis, A. Miceli, R. Covarrubias, S. L. Hawley, R. C. Smith, N. B. Suntzeff, K. Olsen, J. L. Prieto, R. Hiriart, D. L. Welch, K. H. Cook, S. Nikolaev, M. Huber, G. Proctor, A. Clocchiatti, D. Minniti, A. Garg, P. Challis, S. C. Keller, and B. P. Schmidt. Testing LMC Microlensing Scenarios: The Discrimination Power of the SuperMACHO Microlensing Survey. *ApJ*, 634:1103–1115, December 2005.
- [3] K. Krisciunas, P. M. Garnavich, P. Challis, J. L. Prieto, A. G. Riess, B. Barris, C. Aguilera, **Becker, A. C.**, S. Blondin, R. Chornock, A. Clocchiatti, R. Covarrubias, A. V. Filippenko, R. J. Foley, M. Hicken, S. Jha, R. P. Kirshner, B. Leibundgut, W. Li, T. Matheson, A. Miceli, G. Miknaitis, A. Rest, M. E. Salvo, B. P. Schmidt, R. C. Smith, J. Sollerman, J. Spyromilio, C. W. Stubbs, N. B. Suntzeff, J. L. Tonry, and W. M. Wood-Vasey. Hubble Space Telescope Observations of Nine High-Redshift ESSENCE Supernovae1,. *AJ*, 130:2453–2472, December 2005.
- [4] S. F. Anderson, D. Haggard, L. Homer, N. R. Joshi, B. Margon, N. M. Silvestri, P. Szkody, M. A. Wolfe, E. Agol, **Becker, A. C.**, A. Henden, P. B. Hall, G. R. Knapp, M. W. Richmond, D. P. Schneider, G. Stinson, J. C. Barentine, H. J. Brewington, J. Brinkmann, M. Harvanek, S. J. Kleinman, J. Krzesinski, D. Long, E. H. Nielsen, A. Nitta, and S. A. Snedden. Ultracompact AM Canum Venaticorum Binaries from the Sloan Digital Sky Survey: Three Candidates Plus the First Confirmed Eclipsing System. *AJ*, 130:2230–2236, November 2005.
- [5] C. L. Thomas, K. Griest, P. Popowski, K. H. Cook, A. J. Drake, D. Minniti, D. G. Myer, C. Alcock, R. A. Allsman, D. R. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. C. Freeman, M. Geha, M. J. Lehner, S. L. Marshall, C. A. Nelson, B. A. Peterson, P. J. Quinn, C. W. Stubbs, W. Sutherland, T. Vandehei, and D. L. Welch. Galactic Bulge Microlensing Events from the MACHO Collaboration. *ApJ*, 631:906–934, October 2005.
- [6] P. Popowski, K. Griest, C. L. Thomas, K. H. Cook, D. P. Bennett, **Becker, A. C.**, D. R. Alves, D. Minniti, A. J. Drake, C. Alcock, R. A. Allsman, T. S. Axelrod, K. C. Freeman, M. Geha, M. J. Lehner, S. L. Marshall, C. A. Nelson, B. A. Peterson, P. J. Quinn, C. W. Stubbs, W. Sutherland, T. Vandehei, and D. Welch. Microlensing Optical Depth toward the Galactic Bulge Using Clump Giants from the MACHO Survey. *ApJ*, 631:879–905, October 2005.
- [7] D. P. Bennett, **Becker, A. C.**, and A. Tomaney. Photometric Confirmation of MACHO Large Magellanic Cloud Microlensing Events. *ApJ*, 631:301–311, September 2005.

- [8] T. Matheson, S. Blondin, R. J. Foley, R. Chornock, A. V. Filippenko, B. Leibundgut, R. C. Smith, J. Sollerman, J. Spyromilio, R. P. Kirshner, A. Clocchiatti, C. Aguilera, B. Barris, **Becker, A. C.**, P. Challis, R. Covarrubias, P. Garnavich, M. Hicken, S. Jha, K. Krisciunas, W. Li, A. Miceli, G. Miknaitis, J. L. Prieto, A. Rest, A. G. Riess, M. E. Salvo, B. P. Schmidt, C. W. Stubbs, N. B. Suntzeff, and J. L. Tonry. Spectroscopy of High-Redshift Supernovae from the ESSENCE Project: The First 2 Years. *AJ*, 129:2352–2375, May 2005.
- [9] **Becker, A. C.**, D. M. Wittman, P. C. Boeshaar, A. Clocchiatti, I. P. Dell’Antonio, D. A. Frail, J. Halpern, V. E. Margoniner, D. Norman, J. A. Tyson, and R. A. Schommer. The Deep Lens Survey Transient Search. I. Short Timescale and Astrometric Variability. *ApJ*, 611:418–433, August 2004.
- [10] C. Alcock, D. R. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, C. M. Clement, K. H. Cook, A. J. Drake, K. C. Freeman, M. Geha, K. Griest, M. J. Lehner, S. L. Marshall, D. Minniti, A. Muzzin, C. A. Nelson, B. A. Peterson, P. Popowski, P. J. Quinn, A. W. Rodgers, J. F. Rowe, W. Sutherland, T. Vandehei, and D. L. Welch. The MACHO Project Large Magellanic Cloud Variable-Star Inventory. XIII. Fourier Parameters for the First-Overtone RR Lyrae Variables and the LMC Distance. *AJ*, 127:334–354, January 2004.
- [11] P. Popowski, K. H. Cook, and **Becker, A. C.** The Large-Scale Extinction Map of the Galactic Bulge from the MACHO Project Photometry. *AJ*, 126:2910–2921, December 2003.
- [12] C. Alcock, D. R. Alves, **Becker, A.**, D. Bennett, K. H. Cook, A. Drake, K. Freeman, M. Geha, K. Griest, G. Kovács, M. Lehner, S. Marshall, D. Minniti, C. Nelson, B. Peterson, P. Popowski, M. Pratt, P. Quinn, A. Rodgers, C. Stubbs, W. Sutherland, T. Vandehei, and D. L. Welch. The MACHO Project Large Magellanic Cloud Variable Star Inventory. XI. Frequency Analysis of the Fundamental-Mode RR Lyrae Stars. *ApJ*, 598:597–609, November 2003.
- [13] D. Wittman, V. E. Margoniner, J. A. Tyson, J. G. Cohen, **Becker, A. C.**, and I. P. Dell’Antonio. Weak-Lensing Discovery and Tomography of a Cluster at  $z = 0.68$ . *ApJ*, 597:218–224, November 2003.
- [14] M. Geha, C. Alcock, R. A. Allsman, D. R. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, A. J. Drake, K. C. Freeman, K. Griest, S. C. Keller, M. J. Lehner, S. L. Marshall, D. Minniti, C. A. Nelson, B. A. Peterson, P. Popowski, M. R. Pratt, P. J. Quinn, C. W. Stubbs, W. Sutherland, A. B. Tomaney, T. Vandehei, and D. L. Welch. Variability-selected Quasars in MACHO Project Magellanic Cloud Fields. *AJ*, 125:1–12, January 2003.
- [15] D. P. Bennett, **Becker, A. C.**, J. L. Quinn, A. B. Tomaney, C. Alcock, R. A. Allsman, D. R. Alves, T. S. Axelrod, J. J. Calitz, K. H. Cook, A. J. Drake, P. C. Fragile, K. C. Freeman, M. Geha, K. Griest, B. R. Johnson, S. C. Keller, C. Laws, M. J. Lehner, S. L. Marshall, D. Minniti, C. A. Nelson, B. A. Peterson, P. Popowski, M. R. Pratt,

- P. J. Quinn, S. H. Rhie, C. W. Stubbs, W. Sutherland, T. Vandehei, and D. Welch. Gravitational Microlensing Events Due to Stellar-Mass Black Holes. *ApJ*, 579:639–659, November 2002.
- [16] M. Stritzinger, M. Hamuy, N. B. Suntzeff, R. C. Smith, M. M. Phillips, J. Maza, L.-G. Strolger, R. Antezana, L. González, M. Wischnjewsky, P. Candia, J. Espinoza, D. González, C. Stubbs, **Becker, A. C.**, E. P. Rubenstein, and G. Galaz. Optical Photometry of the Type Ia Supernova 1999ee and the Type Ib/c Supernova 1999ex in IC 5179. *AJ*, 124:2100–2117, October 2002.
- [17] C. Alcock, R. A. Allsman, D. R. Alves, **Becker, A. C.**, D. P. Bennett, K. H. Cook, A. J. Drake, K. C. Freeman, K. Griest, S. L. Hawley, S. Keller, M. J. Lehner, D. Lepschak, S. L. Marshall, D. Minniti, C. A. Nelson, B. A. Peterson, P. Popowski, M. R. Pratt, P. J. Quinn, A. W. Rodgers, N. Suntzeff, W. Sutherland, T. Vandehei, and D. L. Welch. The MACHO Project Large Magellanic Cloud Variable Star Inventory. XII. Three Cepheid Variables in Eclipsing Binaries. *ApJ*, 573:338–350, July 2002.
- [18] C. Alcock, R. A. Allsman, D. R. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, A. J. Drake, K. C. Freeman, M. Geha, K. Griest, S. C. Keller, M. J. Lehner, S. L. Marshall, D. Minniti, C. A. Nelson, B. A. Peterson, P. Popowski, M. R. Pratt, P. J. Quinn, C. W. Stubbs, W. Sutherland, A. B. Tomaney, T. Vandehei, and D. Welch. Direct detection of a microlens in the Milky Way. *Nature*, 414:617–619, December 2001.
- [19] C. Alcock, R. A. Allsman, D. R. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, A. J. Drake, K. C. Freeman, M. Geha, K. Griest, M. J. Lehner, S. L. Marshall, D. Minniti, C. A. Nelson, B. A. Peterson, P. Popowski, M. R. Pratt, P. J. Quinn, C. W. Stubbs, W. Sutherland, T. Vandehei, and D. L. Welch. Astrometry with the MACHO Data Archive. I. High Proper Motion Stars toward the Galactic Bulge and Magellanic Clouds. *ApJ*, 562:337–347, November 2001.
- [20] C. Alcock, R. A. Allsman, D. R. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, A. J. Drake, K. C. Freeman, M. Geha, K. Griest, M. J. Lehner, S. L. Marshall, D. Minniti, C. A. Nelson, B. A. Peterson, P. Popowski, M. R. Pratt, P. J. Quinn, C. W. Stubbs, W. Sutherland, A. B. Tomaney, T. Vandehei, and D. Welch. The MACHO Project: Microlensing Detection Efficiency. *ApJS*, 136:439–462, October 2001.
- [21] C. Alcock, R. A. Allsman, D. R. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, A. J. Drake, K. C. Freeman, M. Geha, K. Griest, M. J. Lehner, S. L. Marshall, D. Minniti, C. A. Nelson, B. A. Peterson, P. Popowski, M. R. Pratt, P. J. Quinn, C. W. Stubbs, W. Sutherland, A. B. Tomaney, T. Vandehei, and D. L. Welch. Erratum: The MACHO Project: Microlensing Optical Depth toward the Galactic Bulge from Difference Image Analysis. *ApJ*, 557:1035–1035, August 2001.
- [22] C. Alcock, R. A. Allsman, D. R. Alves, T. S. Axelrod, **Becker, A.**, D. P. Bennett, G. C. Clayton, K. H. Cook, N. Dalal, A. J. Drake, K. C. Freeman, M. Geha, K. D. Gordon, K. Griest, D. Kilkenney, M. J. Lehner, S. L. Marshall, D. Minniti, K. A. Misselt, C. A. Nelson, B. A. Peterson, P. Popowski, M. R. Pratt, P. J. Quinn, C. W. Stubbs,

- W. Sutherland, A. Tomaney, T. Vandehei, and D. L. Welch. The MACHO Project LMC Variable Star Inventory. X. The R Coronae Borealis Stars. *ApJ*, 554:298–315, June 2001.
- [23] C. Alcock, R. A. Allsman, D. R. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, N. Dalal, A. J. Drake, K. C. Freeman, M. Geha, K. Griest, M. J. Lehner, S. L. Marshall, D. Minniti, C. A. Nelson, B. A. Peterson, P. Popowski, M. R. Pratt, P. J. Quinn, C. W. Stubbs, W. Sutherland, A. B. Tomaney, and T. Vandehei. The MACHO Project Hubble Space Telescope Follow-Up: Preliminary Results on the Location of the Large Magellanic Cloud Microlensing Source Stars. *ApJ*, 552:582–590, May 2001.
- [24] C. Alard, J. A. D. L. Blommaert, C. Cesarsky, N. Epchtein, M. Felli, P. Fouque, S. Ganesh, R. Genzel, G. Gilmore, I. S. Glass, H. Habing, A. Omont, M. Perault, S. Price, A. Robin, M. Schultheis, G. Simon, J. T. van Loon, C. Alcock, R. A. Allsman, D. R. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, A. J. Drake, K. C. Freeman, M. Geha, K. Griest, M. J. Lehner, S. L. Marshall, D. Minniti, C. Nelson, B. A. Peterson, P. Popowski, M. R. Pratt, P. J. Quinn, W. Sutherland, A. B. Tomaney, T. Vandehei, and D. L. Welch. Mass-losing Semiregular Variable Stars in Baade’s Windows. *ApJ*, 552:289–308, May 2001.
- [25] C. Alcock, R. A. Allsman, D. R. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, A. J. Drake, K. C. Freeman, M. Geha, K. Griest, M. J. Lehner, S. L. Marshall, D. Minniti, C. A. Nelson, B. A. Peterson, P. Popowski, M. R. Pratt, P. J. Quinn, C. W. Stubbs, W. Sutherland, A. B. Tomaney, T. Vandehei, and D. Welch. MACHO 96-LMC-2: Lensing of a Binary Source in the Large Magellanic Cloud and Constraints on the Lensing Object. *ApJ*, 552:259–267, May 2001.
- [26] C. Alcock, R. A. Allsman, D. R. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, N. Dalal, A. J. Drake, K. C. Freeman, M. Geha, K. Griest, M. J. Lehner, S. L. Marshall, D. Minniti, C. A. Nelson, B. A. Peterson, P. Popowski, M. R. Pratt, P. J. Quinn, C. W. Stubbs, W. Sutherland, A. B. Tomaney, T. Vandehei, and D. L. Welch. MACHO Project Limits on Black Hole Dark Matter in the 1-30  $M_{\text{solar}}$  Range. *ApJ*, 550:L169–L172, April 2001.
- [27] C. Alcock, R. A. Allsman, D. R. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, P. A. Charles, K. H. Cook, A. J. Drake, K. C. Freeman, M. Geha, K. Griest, M. J. Lehner, S. L. Marshall, K. E. McGowan, D. Minniti, C. A. Nelson, B. A. Peterson, P. Popowski, M. R. Pratt, P. J. Quinn, C. W. Stubbs, W. Sutherland, A. B. Tomaney, T. Vandehei, and D. L. Welch. A 421-d activity cycle in the BeX recurrent transient A0538-66 from MACHO monitoring. *MNRAS*, 321:678–684, March 2001.
- [28] C. Alcock, R. A. Allsman, D. R. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, N. Dalal, A. J. Drake, K. C. Freeman, M. Geha, K. Griest, M. J. Lehner, S. L. Marshall, D. Minniti, C. A. Nelson, B. A. Peterson, P. Popowski, M. R. Pratt, P. J. Quinn, C. W. Stubbs, W. Sutherland, A. B. Tomaney, T. Vandehei, and D. Welch. The MACHO Project: Microlensing Results from 5.7 Years of Large Magellanic Cloud Observations. *ApJ*, 542:281–307, October 2000.

- [29] C. Alcock, R. Allsman, D. R. Alves, T. Axelrod, **Becker, A.**, D. Bennett, C. Clement, K. H. Cook, A. Drake, K. Freeman, M. Geha, K. Griest, G. Kovács, D. W. Kurtz, M. Lehner, S. Marshall, D. Minniti, C. Nelson, B. Peterson, P. Popowski, M. Pratt, P. Quinn, A. Rodgers, J. Rowe, C. Stubbs, W. Sutherland, A. Tomaney, T. Vandehei, and D. L. Welch. The MACHO Project Large Magellanic Cloud Variable-Star Inventory. IX. Frequency Analysis of the First-Overtone RR Lyrae Stars and the Indication for Nonradial Pulsations. *ApJ*, 542:257–280, October 2000.
- [30] C. Alcock, R. A. Allsman, D. R. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, A. J. Drake, K. C. Freeman, M. Geha, K. Griest, M. J. Lehner, S. L. Marshall, D. Minniti, C. A. Nelson, B. A. Peterson, P. Popowski, M. R. Pratt, P. J. Quinn, C. W. Stubbs, W. Sutherland, A. B. Tomaney, T. Vandehei, and D. L. Welch. The MACHO Project: Microlensing Optical Depth toward the Galactic Bulge from Difference Image Analysis. *ApJ*, 541:734–766, October 2000.
- [31] C. Alcock, R. A. Allsman, D. Alves, T. S. Axelrod, D. Baines, **Becker, A. C.**, D. P. Bennett, A. Bourke, A. Brakel, K. H. Cook, B. Crook, A. Crouch, J. Dan, A. J. Drake, P. C. Fragile, K. C. Freeman, A. Gal-Yam, M. Geha, J. Gray, K. Griest, A. Gurtierrez, A. Heller, J. Howard, B. R. Johnson, S. Kaspi, M. Keane, O. Kovo, C. Leach, T. Leach, E. M. Leibowitz, M. J. Lehner, Y. Lipkin, D. Maoz, S. L. Marshall, D. McDowell, S. McKeown, H. Mendelson, B. Messenger, D. Minniti, C. Nelson, B. A. Peterson, P. Popowski, E. Pozza, P. Purcell, M. R. Pratt, J. Quinn, P. J. Quinn, S. H. Rhie, A. W. Rodgers, A. Salmon, O. Shemmer, P. Stetson, C. W. Stubbs, W. Sutherland, S. Thomson, A. Tomaney, T. Vandehei, A. Walker, K. Ward, and G. Wyper. Binary Microlensing Events from the MACHO Project. *ApJ*, 541:270–297, September 2000.
- [32] C. Alcock, R. A. Allsman, D. R. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, P. A. Charles, K. H. Cook, A. J. Drake, K. C. Freeman, M. Geha, K. Griest, P. Groot, M. J. Lehner, S. L. Marshall, K. E. McGowan, D. Minniti, C. A. Nelson, B. A. Peterson, P. Popowski, M. R. Pratt, P. J. Quinn, W. Sutherland, A. B. Tomaney, T. Vandehei, and J. van Paradijs. Searching for periodicities in the MACHO light curve of LMC X-2. *MNRAS*, 316:729–733, August 2000.
- [33] C. Alcock, R. A. Allsman, D. R. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, K. C. Freeman, M. Geha, K. Griest, M. J. Lehner, S. L. Marshall, B. J. McNamara, D. Minniti, C. Nelson, B. A. Peterson, P. Popowski, M. R. Pratt, P. J. Quinn, A. W. Rodgers, W. Sutherland, M. R. Templeton, T. Vandehei, and D. L. Welch. The MACHO Project Sample of Galactic Bulge High-Amplitude  $\delta$  Scuti Stars: Pulsation Behavior and Stellar Properties. *ApJ*, 536:798–815, June 2000.
- [34] C. Alcock, R. A. Allsman, D. R. Alves, T. S. Axelrod, A. Basu, **Becker, A. C.**, D. P. Bennett, K. H. Cook, A. J. Drake, K. C. Freeman, M. Geha, K. Griest, L. King, M. J. Lehner, S. L. Marshall, D. Minniti, C. A. Nelson, B. A. Peterson, P. Popowski, M. R. Pratt, P. J. Quinn, C. W. Stubbs, W. Sutherland, A. B. Tomaney, T. Vandehei, and D. L. Welch. The MACHO Project 9 Million Star Color-Magnitude Diagram of the Large Magellanic Cloud. *AJ*, 119:2194–2213, May 2000.

- [35] S. H. Rhie, D. P. Bennett, **Becker, A. C.**, B. A. Peterson, P. C. Fragile, B. R. Johnson, J. L. Quinn, A. Crouch, J. Gray, L. King, B. Messenger, S. Thomson, I. A. Bond, F. Abe, B. S. Carter, R. J. Dodd, J. B. Hearnshaw, M. Honda, J. Jugaku, S. Kabe, P. M. Kilmartin, B. S. Koribalski, K. Masuda, Y. Matsubara, Y. Muraki, T. Nakamura, G. R. Nankivell, S. Noda, N. J. Rattenbury, M. Reid, N. J. Rumsey, T. Saito, H. Sato, S. Sato, M. Sekiguchi, D. J. Sullivan, T. Sumi, Y. Watase, T. Yanagisawa, P. C. M. Yock, and M. Yoshizawa. On Planetary Companions to the MACHO 98-BLG-35 Microlens Star. *ApJ*, 533:378–391, April 2000.
- [36] C. Afonso, C. Alard, J. N. Albert, J. Andersen, R. Ansari, É. Aubourg, P. Bareyre, F. Bauer, J. P. Beaulieu, A. Bouquet, S. Char, X. Charlot, F. Couchot, C. Coutures, F. Derue, R. Ferlet, J. F. Glicenstein, B. Goldman, A. Gould, D. Graff, M. Gros, J. Haissinski, J. C. Hamilton, D. Hardin, J. de Kat, A. Kim, T. Lasserre, É. Lesquoy, C. Loup, C. Magneville, J. B. Marquette, É. Maurice, A. Milsztajn, M. Moniez, N. Palanque-Delabrouille, O. Perdureau, L. Prévot, N. Regnault, J. Rich, M. Spiro, A. Vidal-Madjar, L. Vigroux, S. Zylberajch, C. Alcock, R. A. Allsman, D. Alves, T. S. Axelrod, **Becker, A. C.**, K. H. Cook, A. J. Drake, K. C. Freeman, K. Griest, L. J. King, M. J. Lehner, S. L. Marshall, D. Minniti, B. A. Peterson, M. R. Pratt, P. J. Quinn, A. W. Rodgers, P. B. Stetson, C. W. Stubbs, W. Sutherland, A. Tomaney, T. Vandehei, S. H. Rhie, D. P. Bennett, P. C. Fragile, B. R. Johnson, J. Quinn, A. Udalski, M. Kuibak, M. Szymański, G. Pietrzyński, P. Woźniak, K. Zeburń, M. D. Albrow, J. A. R. Caldwell, D. L. DePoy, M. Dominik, B. S. Gaudi, J. Greenhill, K. Hill, S. Kane, R. Martin, J. Menzies, R. M. Naber, R. W. Pogge, K. R. Pollard, P. D. Sackett, K. C. Sahu, P. Vermaak, R. Watson, and A. Williams. Combined Analysis of the Binary Lens Caustic-crossing Event MACHO 98-SMC-1. *ApJ*, 532:340–352, March 2000.
- [37] C. Alcock, R. A. Allsman, D. R. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, A. J. Drake, K. C. Freeman, M. Geha, K. Griest, M. J. Lehner, S. L. Marshall, D. Minniti, B. A. Peterson, P. Popowski, M. R. Pratt, C. A. Nelson, P. J. Quinn, C. W. Stubbs, W. Sutherland, A. B. Tomaney, T. Vandehei, D. L. Welch, and The MACHO Collaboration. Calibration of the MACHO Photometry Database. *PASP*, 111:1539–1558, December 1999.
- [38] D. P. Bennett, S. H. Rhie, **Becker, A. C.**, N. Butler, J. Dann, S. Kaspi, E. M. Leibowitz, Y. Lipkin, D. Maoz, H. Mendelson, B. A. Peterson, J. Quinn, O. Shemmer, S. Thomson, and S. E. Turner. Discovery of a planet orbiting a binary star system from gravitational microlensing. *Nature*, 402:57–59, November 1999.
- [39] C. Alcock, R. A. Allsman, D. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, A. J. Drake, K. C. Freeman, K. Griest, M. J. Lehner, S. L. Marshall, D. Minniti, B. A. Peterson, M. R. Pratt, P. J. Quinn, C. W. Stubbs, W. Sutherland, A. Tomaney, T. Vandehei, and D. L. Welch. Difference Image Analysis of Galactic Microlensing. II. Microlensing Events. *ApJS*, 124:171–179, September 1999.
- [40] S. H. Rhie, **Becker, A. C.**, D. P. Bennett, P. C. Fragile, B. R. Johnson, L. J. King, B. A. Peterson, and J. Quinn. Observations of the Binary Microlens Event MACHO 98-SMC-

1 by the Microlensing Planet Search Collaboration. *ApJ*, 522:1037–1045, September 1999.

- [41] C. Alcock, R. A. Allsman, D. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, A. J. Drake, K. C. Freeman, K. Griest, M. J. Lehner, S. L. Marshall, D. Minniti, B. A. Peterson, M. R. Pratt, P. J. Quinn, C. W. Stubbs, W. Sutherland, A. Tomaney, T. Vandehei, D. L. Welch, and The MACHO Collaboration. Difference Image Analysis of Galactic Microlensing. I. Data Analysis. *ApJ*, 521:602–612, August 1999.
- [42] C. Alcock, R. A. Allsman, D. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, A. J. Drake, K. C. Freeman, K. Griest, L. J. King, M. J. Lehner, S. L. Marshall, D. Minniti, B. A. Peterson, M. R. Pratt, P. J. Quinn, S. H. Rhie, A. W. Rodgers, P. B. Stetson, C. W. Stubbs, W. Sutherland, A. Tomaney, and T. Vandehei. Discovery and Characterization of a Caustic Crossing Microlensing Event in the Small Magellanic Cloud. *ApJ*, 518:44–49, June 1999.
- [43] C. Alcock, R. A. Allsman, D. R. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, D. F. Bersier, K. H. Cook, K. C. Freeman, K. Griest, J. A. Guern, M. Lehner, S. L. Marshall, D. Minniti, B. A. Peterson, M. R. Pratt, P. J. Quinn, A. W. Rodgers, C. W. Stubbs, W. Sutherland, A. Tomaney, T. Vandehei, and D. L. Welch. The MACHO Project LMC Variable Star Inventory. VIII. The Recent Star Formation History of the Large Magellanic Cloud from the Cepheid Period Distribution. *AJ*, 117:920–926, February 1999.
- [44] C. Alcock, R. A. Allsman, D. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, K. C. Freeman, K. Griest, M. J. Lehner, S. L. Marshall, D. Minniti, B. A. Peterson, M. R. Pratt, P. J. Quinn, A. W. Rodgers, A. Rorabeck, W. Sutherland, A. Tomaney, T. Vandehei, D. L. Welch, and The MACHO Collaboration. The MACHO Project LMC Variable Star Inventory. VI. The Second Overtone Mode of Cepheid Pulsation from First/Second Overtone Beat Cepheids. *ApJ*, 511:185–192, January 1999.
- [45] C. Alcock, R. A. Allsman, D. Alves, R. Ansari, E. Aubourg, T. S. Axelrod, P. Bareyre, J.-P. Beaulieu, **Becker, A. C.**, D. P. Bennett, S. Brehin, F. Cavalier, S. Char, K. H. Cook, R. Ferlet, J. Fernandez, K. C. Freeman, K. Griest, P. Grison, M. Gros, C. Gry, J. Guibert, M. Lachieze-Rey, B. Laurent, M. J. Lehner, E. Lesquoy, C. Magneville, S. L. Marshall, E. Maurice, A. Milsztajn, D. Minniti, M. Moniez, O. Moreau, L. Moscoso, N. Palanque-Delabrouille, B. A. Peterson, M. R. Pratt, L. Prevot, F. Queindec, P. J. Quinn, C. Renault, J. Rich, M. Spiro, C. W. Stubbs, W. Sutherland, A. Tomaney, T. Vandehei, A. Vidal-Madjar, L. Vigroux, and S. Zylberajch. EROS and MACHO Combined Limits on Planetary-Mass Dark Matter in the Galactic Halo. *ApJ*, 499:L9+, May 1998.
- [46] C. Alcock, R. A. Allsman, D. R. Alves, T. S. Axelrod, **Becker, A.**, D. P. Bennett, K. H. Cook, K. C. Freeman, K. Griest, W. A. Lawson, M. J. Lehner, S. L. Marshall, D. Minniti, B. A. Peterson, K. R. Pollard, M. R. Pratt, P. J. Quinn, A. W. Rodgers, W. Sutherland, A. Tomaney, and D. L. Welch. The MACHO Project LMC Variable

Star Inventory. VII. The Discovery of RV Tauri Stars and New Type II Cepheids in the Large Magellanic Cloud. *AJ*, 115:1921–1933, May 1998.

- [47] C. Alcock, R. A. Allsman, D. R. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, K. C. Freeman, K. Griest, A. Gould, J. A. Guern, M. J. Lehner, S. L. Marshall, D. Minniti, B. A. Peterson, P. Popowski, M. R. Pratt, P. J. Quinn, A. W. Rodgers, C. W. Stubbs, W. Sutherland, T. Vandehei, D. L. Welch, and The MACHO Collaboration. The Zero Point of Extinction toward Baade’s Window from RR Lyrae Stars. *ApJ*, 494:396–+, February 1998.
- [48] C. Alcock, R. A. Allsman, D. R. Alves, T. S. Axelrod, **Becker, A. C.**, A. Basu, L. Bassett, D. P. Bennett, K. H. Cook, K. C. Freeman, K. Griest, J. A. Guern, M. J. Lehner, S. L. Marshall, D. Minniti, B. A. Peterson, M. R. Pratt, P. J. Quinn, A. W. Rodgers, C. W. Stubbs, W. Sutherland, T. Vandehei, and D. L. Welch. The RR Lyrae Population of the Galactic Bulge from the MACHO Database: Mean Colors and Magnitudes. *ApJ*, 492:190–+, January 1998.
- [49] C. Alcock, R. A. Allsman, D. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, K. C. Freeman, K. Griest, M. J. Keane, M. J. Lehner, S. L. Marshall, D. Minniti, B. A. Peterson, M. R. Pratt, P. J. Quinn, A. W. Rodgers, C. W. Stubbs, W. Sutherland, A. B. Tomaney, T. Vandehei, and D. Welch. First Detection of a Gravitational Microlensing Candidate toward the Small Magellanic Cloud. *ApJ*, 491:L11+, December 1997.
- [50] C. Alcock, W. H. Allen, R. A. Allsman, D. Alves, T. S. Axelrod, T. S. Banks, S. F. Beaulieu, **Becker, A. C.**, R. H. Becker, D. P. Bennett, I. A. Bond, B. S. Carter, K. H. Cook, R. J. Dodd, K. C. Freeman, M. D. Gregg, K. Griest, J. B. Hearnshaw, A. Heller, M. Honda, J. Jugaku, S. Kabe, S. Kaspi, P. M. Kilmartin, A. Kitamura, O. Kovo, M. J. Lehner, T. E. Love, D. Maoz, S. L. Marshall, Y. Matsubara, D. Minniti, M. Miyamoto, J. A. Morse, Y. Muraki, T. Nakamura, B. A. Peterson, M. M. Phillips, M. R. Pratt, P. J. Quinn, I. N. Reid, M. Reid, D. Reiss, A. Retter, A. W. Rodgers, W. L. W. Sargent, H. Sato, M. Sekiguchi, P. B. Stetson, C. W. Stubbs, D. J. Sullivan, W. Sutherland, A. Tomaney, T. Vandehei, Y. Watase, D. L. Welch, T. Yanagisawa, M. Yoshizawa, P. C. M. Yock, The Macho, and Gman Collaborations. MACHO Alert 95-30: First Real-Time Observation of Extended Source Effects in Gravitational Microlensing. *ApJ*, 491:436–+, December 1997.
- [51] C. Alcock, R. A. Allsman, D. R. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, K. C. Freeman, K. Griest, M. J. Lehner, S. L. Marshall, D. Minniti, B. A. Peterson, M. R. Pratt, P. J. Quinn, A. W. Rodgers, A. Rorabeck, C. W. Stubbs, W. Sutherland, A. B. Tomaney, T. Vandehei, and D. L. Welch. Is the Large Magellanic Cloud Microlensing Due to an Intervening Dwarf Galaxy? *ApJ*, 490:L59+, November 1997.
- [52] C. Alcock, R. A. Allsman, D. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, K. C. Freeman, K. Griest, J. Guern, M. J. Lehner, S. L. Marshall, B. A. Peterson, M. R. Pratt, P. J. Quinn, A. W. Rodgers, C. W. Stubbs, W. Sutherland,

- D. L. Welch, and The MACHO Collaboration. The MACHO Project Large Magellanic Cloud Microlensing Results from the First Two Years and the Nature of the Galactic Dark Halo. *ApJ*, 486:697–+, September 1997.
- [53] C. Alcock, R. A. Allsman, D. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, K. C. Freeman, K. Griest, C. H. S. Lacy, M. J. Lehner, S. L. Marshall, D. Minniti, B. A. Peterson, M. R. Pratt, P. J. Quinn, A. W. Rodgers, C. W. Stubbs, W. Sutherland, and D. L. Welch. The MACHO Project LMC Variable Star Inventory.V.Classification and Orbits of 611 Eclipsing Binary Stars. *AJ*, 114:326–+, July 1997.
- [54] C. Alcock, R. A. Allsman, D. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, K. C. Freeman, K. Griest, J. Guern, M. J. Lehner, S. L. Marshall, D. Minniti, B. A. Peterson, M. R. Pratt, P. J. Quinn, A. W. Rodgers, W. Sutherland, and D. L. Welch. The MACHO Project Large Magellanic Cloud Variable Star Inventory. III. Multimode RR Lyrae Stars, Distance to the Large Magellanic Cloud, and Age of the Oldest Stars. *ApJ*, 482:89–+, June 1997.
- [55] C. Alcock, R. A. Allsman, D. R. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, K. C. Freeman, K. Griest, J. A. Guern, M. J. Lehner, S. L. Marshall, D. Minniti, B. A. Peterson, M. R. Pratt, P. J. Quinn, A. W. Rodgers, C. W. Stubbs, W. Sutherland, D. L. Welch, and The MACHO Collaboration. MACHO Project Photometry of RR Lyrae Stars in the Sagittarius Dwarf Galaxy. *ApJ*, 474:217–+, January 1997.
- [56] C. Alcock, R. A. Allsman, D. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, K. C. Freeman, K. Griest, J. Guern, M. J. Lehner, S. L. Marshall, B. A. Peterson, M. R. Pratt, P. J. Quinn, A. W. Rodgers, C. W. Stubbs, W. Sutherland, and The MACHO Collaboration. The MACHO Project: Limits on Planetary Mass Dark Matter in the Galactic Halo from Gravitational Microlensing. *ApJ*, 471:774–+, November 1996.
- [57] C. Alcock, R. A. Allsman, D. R. Alves, T. S. Axelrod, **Becker, A.**, D. P. Bennett, G. C. Clayton, K. H. Cook, K. C. Freeman, K. Griest, J. A. Guern, D. Kilkenny, M. J. Lehner, S. L. Marshall, D. Minniti, B. A. Peterson, M. R. Pratt, P. J. Quinn, A. W. Rodgers, C. W. Stubbs, W. Sutherland, and D. L. Welch. The MACHO Project Large Magellanic Cloud Variable Star Inventory. IV. New R Coronae Borealis Stars. *ApJ*, 470:583–+, October 1996.
- [58] C. Alcock, R. A. Allsman, D. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, K. C. Freeman, K. Griest, J. Guern, M. J. Lehner, S. L. Marshall, B. A. Peterson, M. R. Pratt, P. J. Quinn, D. Reiss, A. W. Rodgers, C. W. Stubbs, W. Sutherland, D. L. Welch, and The MACHO Collaboration. Real-Time Detection and Multisite Observations of Gravitational Microlensing. *ApJ*, 463:L67+, June 1996.

# NON-REFEREED PROCEEDINGS

---

- [1] **Becker, A. C.**, A. Rest, C. Stubbs, G. A. Miknaitis, A. Miceli, R. Covarrubias, S. L. Hawley, C. Aguilera, R. C. Smith, N. B. Suntzeff, K. Olsen, J. L. Prieto, R. Hiriart, A. Garg, D. L. Welch, K. H. Cook, S. Nikolaev, A. Clocchiatti, D. Minniti, S. C. Keller, and B. P. Schmidt. The SuperMACHO Microlensing Survey. In *IAU Symposium*, pages 357–362, June 2005.
- [2] R. Hiriart, C. Smith, **Becker, A.**, C. Stubbs, A. Rest, G. Miknaitis, and G. Prochter. The SuperMacho+SuperNova Survey Database Design: Supporting Time Domain Analysis of GB to TB Astronomical Datasets. In *ASP Conf. Ser. 295: Astronomical Data Analysis Software and Systems XII*, pages 299–+, 2003.
- [3] C. Smith, A. Rest, R. Hiriart, **Becker, A.**, C. W. Stubbs, F. G. Valdes, and N. Suntzeff. Real-time Time-variability Analysis of GB to TB Datasets: Experience from SuperMACHO and Supernova projects at NOAO/CTIO. In *Survey and Other Telescope Technologies and Discoveries. Edited by Tyson, J. Anthony; Wolff, Sidney. Proceedings of the SPIE, Volume 4836, pp. 395-405 (2002).*, pages 395–405, December 2002.
- [4] D. M. Wittman, J. A. Tyson, I. P. Dell’Antonio, **Becker, A.**, V. Margoniner, J. G. Cohen, D. Norman, D. Loomba, G. Squires, G. Wilson, C. W. Stubbs, J. Hennawi, D. N. Spergel, P. Boeshaar, A. Clocchiatti, M. Hamuy, G. Bernstein, A. Gonzalez, P. Guhathakurta, W. Hu, U. Seljak, and D. Zaritsky. Deep lens survey. In *Survey and Other Telescope Technologies and Discoveries. Edited by Tyson, J. Anthony; Wolff, Sidney. Proceedings of the SPIE, Volume 4836, pp. 73-82 (2002).*, pages 73–82, December 2002.
- [5] D. E. Wittman, V. Margoniner, J. A. Tyson, J. G. Cohen, **Becker, A.**, and I. P. Dell’Antonio. Imaging mass in three dimensions. In *Survey and Other Telescope Technologies and Discoveries. Edited by Tyson, J. Anthony; Wolff, Sidney. Proceedings of the SPIE, Volume 4836, pp. 21-28 (2002).*, pages 21–28, December 2002.
- [6] A. J. Drake, **Becker, A. C.**, A. Clocchiatti, K. H. Cook, R. Covarrubias, R. Hiriart, S. Keller, G. Miknaitis, S. Nikolaev, K. Olsen, G. Prochter, A. Rest, B. P. Schmidt, C. Smith, C. W. Stubbs, N. Suntzeff, and D. L. Welch. A next generation microlensing search: superMacho. In *Dark matter in astro- and particle physics. Proceedings of the International Conference DARK 2002, Cape Town, South Africa, 4 - 9 February 2002. H. V. Klapdor-Kleingrothaus, R. D. Viollier (eds.). Physics and astronomy online library. Berlin: Springer, ISBN 3-540-44257-X, 2002, p. 71 - 78*, pages 71–78, 2002.
- [7] D. L. Welch, G. Kovács, K. H. Cook, C. Alcock, R. Allsman, D. R. Alves, T. Axelrod, **Becker, A.**, D. Bennett, A. Drake, K. Freeman, M. Geha, K. Griest, M. Lehner, S. Marshall, D. Minniti, C. Nelson, B. Peterson, P. Popowski, M. Pratt, P. Quinn, A. Rodgers, C. Stubbs, W. Sutherland, T. Vandehei, and The MACHO Collaboration. Frequency Analysis of a Subset of Fundamental Mode RR Lyrae Stars from the MACHO Project Large Magellanic Cloud Database. In *ASP Conf. Ser. 259: IAU Colloq. 185: Radial and Nonradial Pulsations as Probes of Stellar Physics*, pages 412–+, 2002.

- [8] M. J. Lehner, C. Alcock, R. A. Allsman, D. R. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, N. Dalal, A. J. Drake, K. C. Freeman, M. Geha, K. Griest, S. L. Marshall, D. Minniti, C. A. Nelson, B. A. Peterson, P. Popowski, M. R. Pratt, P. J. Quinn, C. W. Stubbs, W. Sutherland, A. B. Tomaney, T. Vandehei, and D. Welch. The MACHO Project 5.7 Year LMC Results. In *Identification of Dark Matter*, pages 248–+, 2001.
- [9] P. Popowski, T. Vandehei, K. Griest, C. Alcock, R. A. Allsman, D. R. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, A. J. Drake, K. C. Freeman, M. Geha, M. J. Lehner, S. L. Marshall, D. Minniti, C. A. Nelson, B. A. Peterson, P. J. Quinn, C. W. Stubbs, W. Sutherland, D. Welch, and The MACHO Collaboration. MACHO Project Analysis of the Galactic Bulge Microlensing Events With Clump Giants as Sources. In *ASP Conf. Ser. 245: Astrophysical Ages and Times Scales*, pages 358–+, 2001.
- [10] P. Popowski, C. Alcock, R. A. Allsman, D. R. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, A. J. Drake, K. C. Freeman, M. Geha, K. Griest, M. J. Lehner, S. L. Marshall, D. Minniti, C. A. Nelson, B. A. Peterson, M. R. Pratt, P. J. Quinn, C. W. Stubbs, W. Sutherland, A. B. Tomaney, T. Vandehei, and D. Welch. Galactic Bulge Microlensing Events with Clump Giants as Sources. In *ASP Conf. Ser. 239: Microlensing 2000: A New Era of Microlensing Astrophysics*, pages 244–+, 2001.
- [11] D. Minniti, C. Alcock, K. Cook, M. Geha, S. Marshall, C. Nelson, P. Popowski, T. Axelrod, R. Allsman, A. Drake, K. C. Freeman, B. Peterson, **Becker, A.**, M. Pratt, C. Stubbs, A. Tomaney, D. R. Alves, D. Bennett, P. Quinn, D. Welch, and W. Sutherland. MACHO Bulge Microlensing: Spectroscopy Needed. In *ASP Conf. Ser. 230: Galaxy Disks and Disk Galaxies*, pages 39–42, 2001.
- [12] S. Rhie, **Becker, A.**, D. Bennett, J. Calitz, K. Cook, P. Fragile, B. Johnson, S. Gurovich, C. Han, M. Hoffman, C. Laws, P. Martinez, P. Meintjes, D. Minniti, S. Park, B. Peterson, and J. Quinn. Microlensing Planet Search Project. In *IAU Symposium*, 2000.
- [13] G. Kovács, C. Alcock, R. Allsman, D. Alves, T. Axelrod, **Becker, A.**, D. Bennett, C. Clement, K. H. Cook, A. Drake, K. Freeman, M. Geha, K. Griest, D. W. Kurtz, M. Lehner, S. Marshall, D. Minniti, C. Nelson, B. Peterson, P. Popowski, M. Pratt, P. Quinn, A. Rodgers, J. Rowe, C. Stubbs, W. Sutherland, A. Tomaney, T. Vandehei, D. L. Welch, and The MACHO Collaboration. Frequency Analysis of the RRc Variables of the MACHO Database for the LMC. In *ASP Conf. Ser. 203: IAU Colloq. 176: The Impact of Large-Scale Surveys on Pulsating Star Research*, pages 313–314, 2000.
- [14] D. W. Kurtz, C. Alcock, R. A. Allsman, D. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, K. C. Freeman, K. Griest, M. J. Lehner, S. L. Marshall, D. Minniti, B. A. Peterson, M. R. Pratt, P. J. Quinn, A. W. Rodgers, C. W. Stubbs, W. Sutherland, A. Tomaney, D. L. Welch, and The MACHO Collaboration. A New Look at the Blazhko Effect in RR Lyrae Stars with High-Quality Data from the MACHO

- Project. In *ASP Conf. Ser. 203: IAU Colloq. 176: The Impact of Large-Scale Surveys on Pulsating Star Research*, pages 291–298, 2000.
- [15] K. R. Pollard, C. Alcock, R. A. Allsman, D. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, K. C. Freeman, K. Griest, M. J. Lehner, S. L. Marshall, B. A. Peterson, M. R. Pratt, P. J. Quinn, W. Sutherland, A. Tomaney, D. L. Welch, and The MACHO Collaboration. RV Tauri Stars and Type II Cepheids in the Magellanic Clouds – Results from the MACHO Database. In *ASP Conf. Ser. 203: IAU Colloq. 176: The Impact of Large-Scale Surveys on Pulsating Star Research*, pages 89–95, 2000.
- [16] P. R. Wood, C. Alcock, R. A. Allsman, D. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, A. J. Drake, K. C. Freeman, K. Griest, L. J. King, M. J. Lehner, S. L. Marshall, D. Minniti, B. A. Peterson, M. R. Pratt, P. J. Quinn, C. W. Stubbs, W. Sutherland, A. Tomaney, T. Vandehei, and D. L. Welch. MACHO observations of LMC red giants: Mira and semi-regular pulsators, and contact and semi-detached binaries. In *IAU Symp. 191: Asymptotic Giant Branch Stars*, pages 151–+, 1999.
- [17] A. J. Drake, D. Minniti, C. Alcock, R. A. Allsman, D. Alves, T. S. Axelrod, **Becker, A. C.**, D. Bennett, K. H. Cook, K. C. Freeman, K. Griest, M. Lehner, S. Marshall, B. Peterson, M. Pratt, P. Quinn, A. Rodgers, C. Stubbs, W. Sutherland, A. Tomaney, T. Vandehei, and D. L. Welch. Results from the MACHO Galactic Pixel Lensing Search. In *ASP Conf. Ser. 165: The Third Stromlo Symposium: The Galactic Halo*, pages 382–+, 1999.
- [18] C. Alcock, R. A. Allsman, D. Alves, T. S. Axelrod, **Becker, A. C.**, D. Bennett, K. H. Cook, A. J. Drake, K. C. Freeman, K. Griest, M. Lehner, S. Marshall, D. Minniti, B. Peterson, M. Pratt, P. Quinn, A. Rodgers, C. Stubbs, W. Sutherland, A. Tomaney, T. Vandehei, and D. L. Welch. Baryonic Dark Matter: The Results from Microlensing Surveys. In *ASP Conf. Ser. 165: The Third Stromlo Symposium: The Galactic Halo*, pages 362–+, 1999.
- [19] D. Minniti, C. Alcock, R. A. Allsman, D. Alves, T. S. Axelrod, **Becker, A. C.**, D. Bennett, K. H. Cook, A. J. Drake, K. C. Freeman, K. Griest, M. Lehner, S. Marshall, B. Peterson, M. Pratt, P. Quinn, A. Rodgers, C. Stubbs, W. Sutherland, A. Tomaney, T. Vandehei, and D. L. Welch. MACHO RR Lyrae in the Inner Halo and Bulge. In *ASP Conf. Ser. 165: The Third Stromlo Symposium: The Galactic Halo*, pages 284–+, 1999.
- [20] T. S. Axelrod, R. A. Allsman, P. J. Quinn, C. R. Alcock, D. Alves, **Becker, A.**, D. P. Bennett, K. H. Cook, A. Drake, K. C. Freeman, K. Griest, M. Lehner, S. L. Marshall, D. Minniti, B. A. Peterson, M. R. Pratt, A. W. Rodgers, C. W. Stubbs, W. J. Sutherland, A. Tomaney, T. Vandehei, and D. Welch. MACHO data pipeline. In *Proc. SPIE Vol. 3349, p. 152-164, Observatory Operations to Optimize Scientific Return, Peter J. Quinn; Ed.*, pages 152–164, July 1998.
- [21] D. Alves, C. Alcock, K. Cook, S. Marshall, D. Minniti, R. Allsman, T. Axelrod, K. Freeman, B. Peterson, A. Rodgers, K. Griest, T. Vandehei, **Becker, A.**, C. Stubbs,

- A. Tomaney, D. Bennett, M. Lehner, P. Quinn, M. Pratt, W. Sutherland, and D. Welch. The MACHO Project LMC Variable Star Inventory: Classical Cepheids and AGB Variables. In *Frontiers Science Series No. 23: Pulsating Stars: Recent Developments in Theory and Observation*, pages 17–+, 1998.
- [22] D. Minniti, C. Alcock, D. Alves, K. Cook, S. Marshall, R. Allsman, T. Axelrod, K. Freeman, B. Peterson, A. Rodgers, K. Griest, T. Vandehei, **Becker, A.**, C. Stubbs, A. Tomaney, D. Bennett, M. Lehner, P. Quinn, M. Pratt, W. Sutherland, and D. Welch. Pulsating Variable Stars in the MACHO Bulge Database: The Semiregular Variables. In *Frontiers Science Series No. 23: Pulsating Stars: Recent Developments in Theory and Observation*, pages 5–+, 1998.
- [23] D. Minniti, C. Alcock, D. R. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, K. C. Freeman, K. Griest, M. J. Lehner, S. L. Marshall, B. A. Peterson, P. J. Quinn, M. R. Pratt, A. W. Rodgers, C. W. Stubbs, W. Sutherland, A. Tomaney, T. Vandehei, and D. Welch. Bulge delta Scuti stars in the MACHO database. In *IAU Symp. 189: Fundamental Stellar Properties*, pages 293–+, 1998.
- [24] D. Minniti, C. Alcock, D. Alves, K. Cook, S. Marshall, R. Allsman, T. Axelrod, K. Freeman, B. Peterson, A. Rodgers, K. Griest, M. Lehner, T. Vandehei, **Becker, A.**, M. Pratt, C. Stubbs, A. Tomaney, P. Quinn, D. Bennett, W. Sutherland, and D. Welch. MACHO RR Lyrae stars in the Galactic bulge: the spatial distribution. In *IAU Symp. 184: The Central Regions of the Galaxy and Galaxies*, pages 123–+, 1998.
- [25] D. Minniti, D. A. Alves, C. Alcock, R. A. Allsman, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, K. C. Freeman, K. Griest, M. J. Lehner, S. L. Marshall, B. A. Peterson, M. R. Pratt, P. J. Quinn, A. W. Rodgers, C. W. Stubbs, W. Sutherland, A. Tomaney, T. Vandehei, and D. L. Welch. RR Lyrae in Front of the LMC: Implications for Microlensing. In *ASP Conf. Ser. 136: Galactic Halos*, pages 341–+, 1998.
- [26] D. Bersier, C. Alcock, R. A. Allsman, D. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, K. C. Freeman, K. Griest, J. Guern, S. L. Marshall, D. Minniti, M. J. Lehner, B. A. Peterson, M. R. Pratt, P. J. Quinn, A. W. Rodgers, W. Sutherland, D. L. Welch, A. Tomaney, and T. Vandehei. LMC Cepheids in the MACHO Database: Constraints on the Star Formation Rate and on Stellar Models. In *ASP Conf. Ser. 135: A Half Century of Stellar Pulsation Interpretation*, pages 24–+, 1998.
- [27] D. Minniti, C. Alcock, D. R. Alves, R. A. Allsman, T. S. Axelrod, **Becker, A.**, D. P. Bennett, K. H. Cook, K. C. Freeman, K. Griest, J. A. Guern, M. J. Lehner, S. L. Marshall, B. A. Peterson, M. R. Pratt, P. J. Quinn, A. W. Rodgers, C. W. Stubbs, W. Sutherland, and D. L. Welch. RR Lyrae Stars in the MACHO Database. In *Variables Stars and the Astrophysical Returns of the Microlensing Surveys*, pages 257–+, 1997.
- [28] K. C. Pollard, C. Alcock, D. R. Alves, D. P. Bennett, K. H. Cook, S. L. Marshall, D. Minniti, R. A. Allsman, T. S. Axelrod, K. C. Freeman, B. A. Peterson, A. W. Rodgers, K. Griest, J. A. Guern, M. L. Lehner, **Becker, A.**, M. R. Pratt, P. J. Quinn, W. Sutherland, and D. L. Welch. MACHO Observations of Type II Cepheids and

- RV Tauri Stars in the LMC. In *Variables Stars and the Astrophysical Returns of the Microlensing Surveys*, pages 219–+, 1997.
- [29] D. L. Welch, C. Alcock, R. A. Allsman, D. R. Alves, T. A. Axelrod, **Becker, A.**, D. P. Bennett, K. H. Cook, K. C. Freeman, K. Griest, J. A. Guern, M. J. Lehner, S. L. Marshall, D. Minniti, B. A. Peterson, M. R. Pratt, P. J. Quinn, A. W. Rodgers, A. Rorabeck, C. W. Stubbs, and W. Sutherland. Cepheids in the Lmc: Results from the MACHO Project. In *Variables Stars and the Astrophysical Returns of the Microlensing Surveys*, pages 205–+, 1997.
- [30] K. H. Cook, C. Alcock, R. A. Allsman, T. S. Axelrod, **Becker, A.**, D. P. Bennett, K. C. Freeman, K. Griest, J. A. Guern, M. J. Lehner, S. L. Marshall, D. Minniti, B. A. Peterson, M. R. Pratt, P. J. Quinn, A. W. Rodgers, C. W. Stubbs, W. Sutherland, and D. L. Welch. The MACHO Project: Microlensing and Variable Stars. In *Variables Stars and the Astrophysical Returns of the Microlensing Surveys*, pages 17–+, 1997.
- [31] T. S. Axelrod, C. Alcock, R. A. Allsman, D. Alves, **Becker, A. C.**, D. P. Bennett, K. H. Cook, K. C. Freeman, K. Griest, J. Guern, M. J. Lehner, S. L. Marshall, B. A. Peterson, M. R. Pratt, P. J. Quinn, A. W. Rodgers, C. W. Stubbs, W. Sutherland, and D. L. Welch. Statistical Issues in the MACHO Project. In *Statistical Challenges in Modern Astronomy II*, pages 209–+, 1997.

## NON-REFEREED PUBLICATIONS : AAS

---

- [1] G. Pignata, C. Aguilera, B. Barris, **Becker, A. C.**, S. Blondin, P. Challis, R. Chornock, A. Clocchiatti, R. Covarrubias, T. Davis, A. V. Filippenko, R. J. Foley, A. Garg, P. Garnavich, M. Hicken, S. Jha, R. P. Kirshner, K. Krisciunas, B. Leibundgut, W. Li, T. Matheson, A. Miceli, G. Miknaitis, J. L. Prieto, A. Rest, A. G. Riess, M. E. Salvo, B. P. Schmidt, R. C. Smith, J. Sollerman, J. Spyromilio, C. Stubbs, N. B. Suntzeff, J. L. Tonry, W. M. Wood-Vasey, A. Zenteno, and ESSENCE Collaboration. ESSENCE survey: data reduction and calibration. *American Astronomical Society Meeting Abstracts*, 207:–+, December 2005.
- [2] B. Dilday, J. Barentine, B. Bassett, **Becker, A.**, R. Bendar, M. Bremer, H. Brewington, F. DeJongh, J. Dembicky, D. L. DePoy, M. Doi, A. Edge, E. Elson, J. Frieman, P. Garnavich, A. Goobar, T. Gueth, M. Harvanek, J. Holtzman, U. Hopp, W. Kollatschny, J. Krzesinski, D. Lamenti, H. Lampeitl, R. Kessler, B. Ketzeback, K. Konishi, D. Long, J. Marriner, J. L. Marshall, R. McMillan, J. Mendez, G. Miknaitis, R. Nichol, K. Pan, J. L. Prieto, M. Richmond, A. Riess, R. Romani, K. Romer, P. Ruiz-Lapuente, M. Sako, D. Schneider, M. Smith, S. Snedden, M. Subbarao, N. Takanashi, K. van der Heyden, C. Wheeler, and N. Yasuda. SDSS II Supernova Survey. *American Astronomical Society Meeting Abstracts*, 207:–+, December 2005.
- [3] A. Garg, C. Stubbs, M. Huber, A. Rest, P. Challis, M. Woods-Vasey, S. Blondin, J. L. Prieto, **Becker, A.**, R. Covarrubias, A. Miceli, G. Miknaitis, C. Smith, K. Olsen, N. Suntzeff, C. Aguilera, K. Cook, S. Nikolaev, A. Clocchiatti, D. Minniti, L. Morelli, and P. Welch. Pre-maximum Lightcurves of type Ia Supernovae from the SuperMACHO Project. *American Astronomical Society Meeting Abstracts*, 207:–+, December 2005.
- [4] M. Sako, J. Barentine, J. Bassett, **Becker, A.**, R. Bender, M. Bremer, H. Brewington, F. DeJongh, J. Dembicky, D. L. DePoy, B. Dilday, M. Doi, A. Edge, E. Elson, J. Frieman, P. Garnavich, A. Goobar, M. Harvanek, T. Gueth, J. Holtzman, U. Hopp, W. Kollatschny, J. Krzesinski, D. Lamenti, H. Lampeitl, R. Kessler, B. Ketzeback, K. Konishi, D. Long, J. Marriner, J. L. Marshall, R. McMillan, J. Mendez, G. Miknaitis, R. Nichol, K. Pan, J. L. Prieto, M. Richmond, A. Riess, R. Romani, K. Romer, P. Ruiz-Lapuente, D. Schneider, M. Smith, S. Snedden, M. Subbarao, N. Takanashi, K. van der Heyden, C. Wheeler, and N. Yasuda. Early Results from the SDSS-II Supernova Survey. *American Astronomical Society Meeting Abstracts*, 207:–+, December 2005.
- [5] A. Rest, N. B. Suntzeff, R. C. Smith, K. Olsen, A. Zenteno, C. Aguilera, C. Stubbs, A. Garg, P. Challis, **Becker, A. C.**, A. Miceli, R. Covarrubias, G. A. Miknaitis, D. L. Welch, J. L. Prieto, M. Huber, S. Nikolaev, K. Cook, D. Minniti, A. Clocchiatti, and L. Morelli. Light Echos in the LMC. *American Astronomical Society Meeting Abstracts*, 207:–+, December 2005.
- [6] M. E. Huber, S. Nikolaev, K. H. Cook, A. Rest, C. Smith, K. Olsen, N. Suntzeff, C. Aguilera, C. Stubbs, A. Garg, P. Challis, **Becker, A.**, R. Covarrubias, A. Miceli,

- D. Welch, G. Miknaitis, J. L. Prieto, A. Clocchiatti, D. Minniti, and L. Morelli. Mining the Variables Out of the SuperMACHO Dataset. *American Astronomical Society Meeting Abstracts*, 207:–+, December 2005.
- [7] T. Axelrod, **Becker, A.**, A. Connolly, K. Cook, R. Lupton, S. Nikolaev, A. Rest, N. Silvestri, and C. Smith. The LSST Detection and Association Pipelines. *American Astronomical Society Meeting Abstracts*, 207:–+, December 2005.
- [8] **Becker, A.**, T. Axelrod, Z. Ivezić, R. Lupton, N. Silvestri, and A. Rest. The LSST Image Processing Pipeline. *American Astronomical Society Meeting Abstracts*, 207:–+, December 2005.
- [9] L. Simms, D. Burke, C. F. Claver, S. Heathcote, L. Rosenberg, S. Asztalos, **Becker, A.**, M. Britton, B. Ellerbroek, K. Gilmore, M.-C. Hainaut-Rouelle, G. Jernigan, S. M. Kahn, V. Krabbendam, V. Margoniner, D. Monet, J. Peterson, P. Pinto, P. Puxley, A. Rasmussen, J. Sebag, A. Tokovinin, J. A. Tyson, and D. Wittman. Studies of Atmospheric Distortion of Optical Wavefronts with the SOAR Shack-Hartmann WFS. *American Astronomical Society Meeting Abstracts*, 207:–+, December 2005.
- [10] C. F. Claver, D. Burke, S. Heathcote, L. J. Rosenberg, S. Asztalos, **Becker, A.**, M. Britton, B. Ellerbroek, K. Gilmore, M.-C. Hainaut-Rouelle, J. G. Jernigan, S. M. Kahn, V. Krabbendam, V. Margoniner, D. Monet, J. R. Peterson, P. Pinto, P. Puxley, A. Rasmussen, J. Sebag, L. Simms, A. Tokovinin, J. A. Tyson, and D. Wittman. A Coordinated Campaign to Characterize the Atmosphere for LSST Science. *American Astronomical Society Meeting Abstracts*, 207:–+, December 2005.
- [11] J. R. Peterson, J. G. Jernigan, A. Rasmussen, S. Asztalos, **Becker, A.**, D. Burke, C. F. Claver, K. Gilmore, S. M. Kahn, D. Monet, P. Pinto, L. Rosenberg, L. Simms, J. A. Tyson, and D. Wittman. LSST Atmosphere and Instrument Simulation. *American Astronomical Society Meeting Abstracts*, 207:–+, December 2005.
- [12] S. Asztalos, D. Burke, C. F. Claver, S. Heathcote, L. Rosenberg, **Becker, A.**, M. Britton, B. Ellerbroek, K. Gilmore, M.-C. Hainaut-Rouelle, G. Jernigan, S. M. Kahn, V. Krabbendam, V. Margoniner, D. Monet, J. R. Peterson, P. Pinto, P. Puxley, P. Puxley, A. Rasmussen, J. Sebag, L. Simms, A. Tokovinin, J. A. Tyson, and D. Wittman. Observational Validation of LSST Image Quality Requirements. *American Astronomical Society Meeting Abstracts*, 207:–+, December 2005.
- [13] G. Miknaitis, C. Aguilera, B. Barris, **Becker, A. C.**, S. Blondin, P. Challis, R. Chornock, A. Clocchiatti, R. Covarrubias, A. V. Filippenko, P. Garnavich, M. Hicken, S. Jha, R. P. Kirshner, K. Krisciunas, B. Leibundgut, W. D. Li, T. Matheson, A. Miceli, J. L. Prieto, A. Rest, A. G. Riess, M. E. Salvo, B. P. Schmidt, R. C. Smith, J. Sollerman, J. Spyromilio, C. Stubbs, N. B. Suntzeff, J. L. Tonry, and W. M. Wood-Vasey. Preliminary Results from the ESSENCE Project. *American Astronomical Society Meeting Abstracts*, 206:–+, May 2005.
- [14] R. Kessler, J. Adelman-McCarthy, J. Barentine, **Becker, A.**, W. Boroski, H. Brewington, A. Connolly, F. DeJongh, J. Dembicky, B. Dilday, M. Doi, J. Frieman, J. Gunn,

- M. Harvanek, S. Hawley, J. Hendry, P. Hoeflich, C. Hogan, J. Holtzman, J. Inkmann, D. Johnston, J. Kaplan, B. Ketzeback, G. Kilper, A. Kleinman, S. Kleinman, R. G. Kron, S. Krughoff, J. Krzesinski, D. Lamenti, H. Lampeitl, D. Long, J. Marriner, R. McMillan, G. Miknaitis, P. R. Newman, R. Nichol, A. G. Riess, R. Romani, M. Sako, R. Scranton, S. Snedden, C. Stoughton, M. Subbarao, D. Tucker, L. Wang, N. Yasuda, D. Yocum, and D. York. Status Report on the SDSS-II Supernova Survey. *American Astronomical Society Meeting Abstracts*, 206:–+, May 2005.
- [15] G. Miknaitis, C. Aguilera, B. Barris, **Becker, A. C.**, S. Blondin, P. Challis, R. Chornock, A. Clocchiatti, R. Covarrubias, A. V. Filippenko, P. Garnavich, M. Hicken, S. Jha, R. P. Kirshner, K. Krisciunas, B. Leibundgut, W. D. Li, T. Matheson, A. Miceli, J. L. Prieto, A. Rest, A. G. Riess, M. E. Salvo, B. P. Schmidt, R. C. Smith, J. Sollerman, O. Spyromilio, J. Stubbs, C. Suntzeff, N. B. Tonry, and ESSENCE. ESSENCE: Progress toward a Large Sample of Intermediate Redshift SNe to Constrain  $w$ . *American Astronomical Society Meeting Abstracts*, 205:–+, December 2004.
- [16] J. Frieman, J. Adelman-McCarthy, J. Barentine, **Becker, A.**, W. Boroski, H. Brewington, A. Connolly, F. DeJongh, J. Dembicky, B. Dilday, M. Doi, J. Gunn, M. Harvanek, S. Hawley, P. Hoeflich, C. Hogan, J. Holtzman, D. Johnston, J. Kaplan, R. Kessler, B. Ketzeback, G. Kilper, A. Kleinman, S. Kleinman, R. G. Kron, S. Krughoff, J. Krzesinski, D. Lamenti, H. Lampeitl, D. Long, J. Marriner, R. McMillan, G. Miknaitis, P. R. Newman, R. Nichol, A. Riess, R. Romani, M. Sako, R. Scranton, S. Snedden, C. Stoughton, M. Subbarao, D. Tucker, L. Wang, N. Yasuda, D. York, and SDSS. The SDSS Supernova Survey. *American Astronomical Society Meeting Abstracts*, 205:–+, December 2004.
- [17] H. Lampeitl, J. Adelman-McCarthy, J. Barentine, **Becker, A.**, W. Boroski, H. Brewington, A. Connolly, F. DeJongh, J. Dembicky, B. Dilday, M. Doi, J. Frieman, J. Gunn, M. Harvanek, S. Hawley, J. Hendry, P. Hoeflich, C. Hogan, J. Holtzman, J. Inkmann, D. Johnston, J. Kaplan, R. Kessler, B. Ketzeback, G. Kilper, A. Kleinman, S. Kleinman, R. G. Kron, S. Krughoff, J. Krzesinski, D. Lamenti, D. Long, J. Marriner, R. McMillan, G. Miknaitis, P. R. Newman, R. Nichol, A. Riess, R. Romani, M. Sako, R. Scranton, S. Snedden, C. Stoughton, M. Subbarao, D. Tucker, L. Wang, N. Yasuda, D. R. Yocum, D. York, and Sloan Digital Sky Survey. First results from the SDSS Supernova Survey. *American Astronomical Society Meeting Abstracts*, 205:–+, December 2004.
- [18] W. T. Vestrand, **Becker, A.**, S. Perkins, J. Theiler, J. A. Tyson, A. Rest, C. Smith, C. Stubbs, N. B. Suntzeff, and P. R. Wozniak. Multiple Dimensions of LSST Transient Detection: How do we detect things that go bump in the night that we have not yet thought of? *American Astronomical Society Meeting Abstracts*, 205:–+, December 2004.
- [19] **Becker, A. C.**, A. Rest, G. Miknaitis, R. C. Smith, and C. Stubbs. LSST : Image Subtraction and Transient Detection Techniques. *American Astronomical Society Meeting Abstracts*, 205:–+, December 2004.
- [20] C. F. Claver, L. Rosenberg, S. Asztalos, **Becker, A.**, J. R. Peterson, D. Wittman,

- and J. A. Tyson. Analysis of the LSST image quality and effects seen through the atmosphere. *American Astronomical Society Meeting Abstracts*, 205:–+, December 2004.
- [21] K. Krisciunas, P. Garnavich, P. Challis, M. Hicken, R. P. Kirshner, C. Stubbs, J. L. Prieto, A. G. Riess, B. Barris, J. L. Tonry, C. Aguilera, A. Rest, R. C. Smith, N. B. Suntzeff, **Becker, A. C.**, R. Covarrubias, A. Miceli, G. Miknaitis, S. Blondin, B. Leibundgut, J. Spyromilio, R. Chornock, A. V. Filippenko, S. Jha, W. D. Li, A. Clocchiatti, T. Matheson, M. E. Salvo, B. P. Schmidt, and J. Sollerman. The First Photometry from the ESSENCE Project. *American Astronomical Society Meeting Abstracts*, 205:–+, December 2004.
- [22] C. L. Thomas, K. Griest, P. Popowski, K. H. Cook, C. Alcock, R. A. Allsman, D. R. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, A. J. Drake, K. C. Freeman, M. Geha, M. J. Lehner, S. L. Marshall, D. Minniti, C. A. Nelson, B. A. Peterson, P. J. Quinn, C. W. Stubbs, W. Sutherland, T. Vandehei, D. Welch, and MACHO. New Measurement of Microlensing Optical Depth and Examination of Blending in Microlensing Events. *American Astronomical Society Meeting Abstracts*, 205:–+, December 2004.
- [23] S. Nikolaev, K. H. Cook, C. W. Stubbs, R. C. Smith, A. Rest, R. Hiriart, K. Olsen, **Becker, A.**, D. Welch, R. Covarrubias, A. Miceli, G. Miknaitis, and G. Prochter. Object-Based Photometry Pipeline for SuperMACHO Project. *American Astronomical Society Meeting Abstracts*, 203:–+, December 2003.
- [24] G. Miknaitis, P. M. Garnavich, J. L. Tonry, R. C. Smith, C. W. Stubbs, S. T. Holland, B. P. Schmidt, M. E. Salvo, K. Krisciunas, A. Rest, N. B. Suntzeff, **Becker, A.**, R. A. Covarrubias, A. Miceli, R. Chornock, A. V. Filippenko, S. Jha, W. Li, P. Challis, R. P. Kirshner, T. Matheson, B. Barris, A. G. Riess, S. Blondin, B. Leibundgut, J. Sollerman, J. Spyromilio, and A. Clocchiatti. Optimizing the ESSENCE Supernova Survey for Sensitivity to the Equation of State Parameter. *American Astronomical Society Meeting Abstracts*, 203:–+, December 2003.
- [25] R. P. Kirshner, C. Aguilera, B. Barris, **Becker, A.**, P. Challis, R. Chornock, A. Clocchiatti, R. Covarrubias, A. V. Filippenko, P. M. Garnavich, S. Holland, S. Jha, K. Krisciunas, B. Leibundgut, W. D. Li, T. Matheson, A. Miceli, G. Miknaitis, A. Rest, A. G. Riess, B. P. Schmidt, R. C. Smith, J. Sollerman, J. Spyromilio, C. Stubbs, N. B. Suntzeff, J. L. Tonry, and The ESSENCE Team. ESSENCE: Measuring the Equation of State of the Universe with Supernovae. *American Astronomical Society Meeting Abstracts*, 202:–+, May 2003.
- [26] P. M. Garnavich, S. T. Holland, B. P. Schmidt, K. Krisciunas, R. C. Smith, N. B. Suntzeff, **Becker, A.**, A. Miceli, G. Miknaitis, A. Rest, C. Stubbs, A. V. Filippenko, S. Jha, W. Li, P. Challis, R. P. Kirshner, T. Matheson, B. Barris, J. L. Tonry, A. G. Riess, B. Leibundgut, J. Sollerman, J. Spyromilio, A. Clocchiatti, S. Pompea, and High-Z Supernova Search Team. ESSENCE: Constraining Properties of the Dark Energy with Supernovae. *Bulletin of the American Astronomical Society*, 34:1233–+, December 2002.

- [27] R. C. Smith, C. Aguilera, K. Krisciunas, N. B. Suntzeff, **Becker, A.**, R. Covarrubias, A. Miceli, G. Miknaitis, A. Rest, C. Stubbs, P. M. Garnavich, S. T. Holland, B. P. Schmidt, A. V. Filippenko, S. Jha, W. Li, P. Challis, R. P. Kirshner, T. Matheson, B. Barris, J. L. Tonry, A. G. Riess, B. Leibundgut, J. Sollerman, J. Spyromilio, A. Clocchiatti, and S. Pompea. ESSENCE: Strategies and Initial Observations. *Bulletin of the American Astronomical Society*, 34:1232–+, December 2002.
- [28] C. W. Stubbs, A. Rest, A. Miceli, G. Miknaitis, R. Covarrubias, **Becker, A.**, R. C. Smith, K. Olsen, K. H. Cook, S. Nikolaev, S. Keller, G. Proctor, and D. Welch. The SuperMacho Project: An LMC Microlensing Search using the Blanco 4m telescope and the MOSAIC Imager. *Bulletin of the American Astronomical Society*, 34:1232–+, December 2002.
- [29] R. Hiriart, R. C. Smith, **Becker, A.**, R. Covarrubias, G. Miknaitis, A. Rest, C. Stubbs, K. Cook, S. Nikolaev, and G. Prochter. The SuperMacho+SuperNova Survey Database Design: Supporting Time Domain Analysis of GB to TB Astronomical Datasets. *Bulletin of the American Astronomical Society*, 34:1232–+, December 2002.
- [30] **Becker, A. C.** and DLS Collaboration. The Deep Lens Survey Transient Search. *Bulletin of the American Astronomical Society*, 34:1231–+, December 2002.
- [31] G. Miknaitis, A. Rest, A. Miceli, C. Stubbs, R. Covarrubias, **Becker, A.**, C. Stoughton, and SDSS Collaboration. Supernovae in the SDSS equatorial stripe. *Bulletin of the American Astronomical Society*, 34:1205–+, December 2002.
- [32] A. Miceli, A. Rest, G. Miknaitis, **Becker, A.**, R. Covarrubias, C. Stubbs, B. Schmidt, J. Tonry, R. C. Smith, and R. Hiriart. A Common Pipeline for Real-time Detection of Optical Transients via Frame Subtraction for LONEOS, SDSS, SuperMACHO and ESSENCE. *Bulletin of the American Astronomical Society*, 34:1202–+, December 2002.
- [33] M. D. Stritzinger, M. Hamuy, N. B. Suntzeff, R. C. Smith, P. Candia, M. M. Phillips, J. Maza, R. Antezana, M. Wischnjewsky, L.-G. Strolger, C. Stubbs, **Becker, A. C.**, E. P. Rubenstein, G. Galaz, and L. Gonzalez. Optical Photometry of the Type Ia SN 1999ee and the Type Ib/c SN 1999ex in IC 5179. *Bulletin of the American Astronomical Society*, 34:956–+, June 2002.
- [34] **Becker, A. C.** The Deep Lens Survey Transient Program. *Bulletin of the American Astronomical Society*, 34:683–+, May 2002.
- [35] **Becker, A.**, D. Wittman, C. Stubbs, I. Dell’Antonio, D. Loomba, R. Schommer, J. A. Tyson, V. Margoniner, and DLS Collaboration. The Deep Lens Survey : Real-time Optical Transient and Moving Object Detection. *Bulletin of the American Astronomical Society*, 33:1464–+, December 2001.
- [36] J. A. Tyson, D. Wittman, I. Dell’Antonio, **Becker, A.**, V. Margoniner, and DLS Team. The Deep Lens Survey: Overview. *Bulletin of the American Astronomical Society*, 33:1464–+, December 2001.

- [37] I. Dell’Antonio, J. A. Tyson, D. Wittman, **Becker, A.**, V. Margoniner, G. Wilson, and DLS Team. The DLS Survey image and catalog public database. *Bulletin of the American Astronomical Society*, 33:1463–+, December 2001.
- [38] C. A. Nelson, K. H. Cook, P. Popowski, A. J. Drake, S. L. Marshall, K. Griest, T. Vandehei, C. Alcock, R. A. Allsman, T. S. Axelrod, K. C. Freeman, B. A. Peterson, D. R. Alves, **Becker, A. C.**, C. W. Stubbs, A. B. Tomaney, D. P. Bennett, M. Geha, M. J. Lehner, D. Minniti, M. R. Pratt, P. J. Quinn, W. Sutherland, D. Welch, and MACHO Collaboration. Halo-lensing or Self-lensing? Locating the MACHO Lenses. *Bulletin of the American Astronomical Society*, 197:419–+, December 2000.
- [39] A. J. Drake, C. Alcock, K. H. Cook, S. L. Marshall, C. A. Nelson, P. Popowski, T. S. Axelrod, R. A. Allsman, K. C. Freeman, M. Geha, D. Minniti, **Becker, A. C.**, C. W. Stubbs, D. P. Bennett, D. Alves, K. Griest, T. Vandehei, P. J. Quinn, W. Sutherland, D. L. Welch, and MACHO Collaboration. Astrometry with the Macho Data Archive. *Bulletin of the American Astronomical Society*, 197:418–+, December 2000.
- [40] P. Popowski, K. H. Cook, A. J. Drake, S. L. Marshall, C. A. Nelson, C. Alcock, R. A. Allsman, T. S. Axelrod, K. C. Freeman, B. A. Peterson, D. R. Alves, **Becker, A. C.**, C. W. Stubbs, A. B. Tomaney, D. P. Bennett, M. Geha, K. Griest, T. Vandehei, M. J. Lehner, D. Minniti, M. R. Pratt, P. J. Quinn, W. Sutherland, D. Welch, and MACHO Collaboration. MACHO Project Analysis of the Galactic Bulge Microlensing Events with Clump Giants as Sources. *Bulletin of the American Astronomical Society*, 197:417–+, December 2000.
- [41] C. A. Nelson, C. Alcock, K. Cook, M. Geha, S. L. Marshall, P. Popowski, D. L. Welch, **Becker, A. C.**, M. Pratt, C. W. Stubbs, A. B. Tomaney, T. S. Axelrod, A. J. Drake, K. C. Freeman, B. A. Peterson, K. Griest, T. Vandehei, R. A. Allsman, D. R. Alves, D. P. Bennett, M. J. Lehner, D. Minniti, W. Sutherland, P. J. Quinn, and MACHO Collaboration. Identifying Microlensing Source Stars with HST and Difference Imaging. *Bulletin of the American Astronomical Society*, 31:1444–+, December 1999.
- [42] **Becker, A. C.**, C. Alcock, R. A. Allsman, D. Alves, T. S. Axelrod, D. P. Bennett, K. H. Cook, A. J. Drake, K. C. Freeman, M. Geha, K. Griest, M. J. Lehner, S. L. Marshall, D. Minniti, C. A. Nelson, B. A. Peterson, P. Popowski, M. R. Pratt, P. J. Quinn, A. W. Rodgers, C. W. Stubbs, W. Sutherland, A. B. Tomaney, T. Vandehei, D. L. Welch, and MACHO Collaboration. The MACHO Project: Microlensing Results from 5.7 Years of LMC Observations. *Bulletin of the American Astronomical Society*, 31:1444–+, December 1999.
- [43] S. H. Rhie, D. P. Bennett, P. C. Fragile, L. J. King, J. Quinn, **Becker, A. C.**, B. R. Johnson, B. A. Peterson, F. Abe, K. Masuda, Y. Matsubara, Y. Muraki, S. Noda, S. Sato, T. Sumi, T. Yanagisawa, I. A. Bond, P. M. Kilmartin, B. S. Carter, R. J. Dodd, G. R. Nankivell, N. J. Rumsey, J. B. Hearnshaw, M. Honda, M. Sekiguchi, J. Jugaku, S. Kabe, B. Watase, B. S. Koribalski, T. Nakamura, H. Sato, N. J. Rattenbury, P. C. M. Yock, M. Reid, D. J. Sullivan, T. Saito, and M. Yoshizawa. A Report from Microlensing Planet Search Collaboration: A Possible Earth Mass Planetary System found

in MACHO-98-BLG-35? *Bulletin of the American Astronomical Society*, 30:1415–+, December 1998.

- [44] A. J. Drake, R. A. Allsman, T. S. Axelrod, K. C. Freeman, B. A. Peterson, C. Alcock, K. H. Cook, S. L. Marshall, D. Minniti, P. Popowski, **Becker, A. C.**, C. W. Stubbs, A. Tomaney, D. P. Bennett, L. J. King, D. R. Alves, K. Griest, T. Vandehei, M. J. Lehner, M. R. Pratt, P. J. Quinn, W. Sutherland, D. L. Welch, and MACHO Collaboration. Results from Difference Image Analysis of Galactic Microlensing by the MACHO Collaboration. *Bulletin of the American Astronomical Society*, 30:1415–+, December 1998.
- [45] L. J. King, C. Alcock, R. A. Allsman, D. R. Alves, T. S. Axelrod, **Becker, A. C.**, D. P. Bennett, K. H. Cook, A. J. Drake, K. C. Freeman, K. Griest, M. J. Lehner, S. L. Marshall, D. Minniti, B. A. Peterson, P. Popowski, M. R. Pratt, P. J. Quinn, A. W. Rodgers, C. W. Stubbs, W. Sutherland, A. Tomaney, T. Vandehei, D. L. Welch, and MACHO Collaboration. Identification on HST Images of Microlensed Stars from the MACHO Project. *Bulletin of the American Astronomical Society*, 30:1415–+, December 1998.
- [46] **Becker, A. C.**, C. Alcock, R. A. Allsman, D. R. Alves, T. S. Axelrod, D. P. Bennett, K. H. Cook, A. J. Drake, K. C. Freeman, K. Griest, L. J. King, M. J. Lehner, S. L. Marshall, D. Minniti, B. A. Peterson, P. Popowski, M. R. Pratt, P. J. Quinn, A. W. Rodgers, C. W. Stubbs, W. Sutherland, A. Tomaney, T. Vandehei, D. L. Welch, D. Baines, A. Brakel, B. Crook, J. Howard, T. Leach, D. McDowell, S. McKeown, J. Mitchell, J. Moreland, E. Pozza, P. Purcell, S. Ring, A. Salmon, K. Ward, G. Wyper, A. Heller, S. Kaspi, O. Kovo, D. Maoz, A. Retter, S. H. Rhie, P. Stetson, A. Walker, and MACHO Collaboration. Candidate Binary Microlensing Events from the MACHO Project. *Bulletin of the American Astronomical Society*, 30:1415–+, December 1998.
- [47] D. R. Alves, C. Alcock, R. A. Allsman, T. S. Axelrod, A. Basu, **Becker, A. C.**, D. P. Bennett, K. H. Cook, A. J. Drake, K. C. Freeman, M. Geha, K. Griest, L. J. King, M. J. Lehner, S. L. Marshall, D. Minniti, B. A. Peterson, P. Popowski, M. R. Pratt, P. J. Quinn, A. W. Rodgers, C. W. Stubbs, W. Sutherland, A. Tomaney, T. Vandehei, D. L. Welch, and MACHO Collaboration. The MACHO Project 9 Million Star Color-Magnitude Diagram of the Large Magellanic Cloud: Probing the LMC Disk. *Bulletin of the American Astronomical Society*, 30:1414–+, December 1998.
- [48] J. Lutz, D. Alves, **Becker, A.**, T. Vandehei, K. Griest, M. Lehner, C. Alcock, K. Cook, S. Marshall, D. Minniti, R. Allsman, K. Freeman, B. Peterson, A. Rodgers, M. Pratt, C. Stubbs, A. B. Tomaney, D. Bennett, P. Quinn, W. Sutherland, and D. Welch. V and R Magnitudes for Planetary Nebula Central Stars in the MACHO Project Galactic Bulge Fields. *Bulletin of the American Astronomical Society*, 30:894–+, May 1998.
- [49] T. Vandehei, K. Griest, C. Alcock, D. Alves, K. Cook, D. Minniti, S. Marshall, R. Allsman, T. Axelrod, K. Freeman, B. Peterson, A. Rodgers, M. Pratt, **Becker, A.**,

- C. Stubbs, A. B. Tomaney, M. Lehner, D. Bennett, C. Nelson, P. Quinn, W. Sutherland, and D. Welch. The MACHO Project: Status Report on the Magellanic Clouds. *Bulletin of the American Astronomical Society*, 30:825–+, May 1998.
- [50] D. Alves, C. Alcock, K. Cook, S. Marshall, D. Minniti, R. Allsman, T. Axelrod, K. Freeman, B. Peterson, A. Rodgers, **Becker, A.**, C. Stubbs, A. Tomaney, K. Griest, T. Vandehei, D. Bennett, M. Lehner, C. Nelson, M. Pratt, P. Quinn, W. Sutherland, and D. Welch. The MACHO Project 9 Million Star Color-Magnitude Diagram of the Large Magellanic Cloud Bar. *Bulletin of the American Astronomical Society*, 29:1398–+, December 1997.
- [51] S. H. Rhie, D. P. Bennett, N. Butler, **Becker, A. C.**, A. Tomaney, A. Bourke, S. Thomson, B. Peterson, and S. E. Turner. First Results from the Microlensing Planet Search at the Mt. Stromlo 74". *Bulletin of the American Astronomical Society*, 29:1348–+, December 1997.
- [52] **Becker, A.**, C. Alcock, R. Allsman, D. Alves, T. Axelrod, D. Bennett, K. Cook, K. Freeman, K. Griest, M. Lehner, S. Marshall, D. Minniti, B. Peterson, M. Pratt, P. Quinn, A. Rodgers, C. Stubbs, W. Sutherland, T. Vandehei, D. Welch, F. Abe, I. Bond, B. Carter, R. Dodd, J. Hearnshaw, M. Honda, J. Jugaku, S. Kabe, P. Kilmartin, K. Masuda, Y. Matsubara, Y. Muraki, T. Nakamura, S. Noda, M. Reid, H. Sato, M. Sekiguchi, D. Sullivan, T. Sumi, Y. Watase, P. Yock, D. Baines, A. Brakel, B. Crook, J. Howard, T. Leach, D. McDowell, S. McKeown, J. Mitchell, J. Moreland, E. Pozza, P. Purcell, S. Ring, K. Ward, G. Wyper, A. Heller, S. Kaspi, O. Kovo, D. Maoz, A. Retter, R. Becker, M. D. Gregg, M. Keane, J. Morse, M. Phillips, W. L. W. Sargent, S. Rhie, P. Stetson, and A. Walker. Global Microlensing Alert Network. *Bulletin of the American Astronomical Society*, 29:1347–+, December 1997.
- [53] D. P. Bennett, W. Sutherland, **Becker, A. C.**, C. Stubbs, A. Tomaney, C. Alcock, D. Alves, K. Cook, D. Minniti, S. Marshall, R. Allsman, T. Axelrod, K. Freeman, B. Peterson, A. Rodgers, K. Griest, T. Vandehei, M. Lehner, P. Quinn, and D. Welch. The MACHO Project: Parallax and Binary Source Microlensing Events. *Bulletin of the American Astronomical Society*, 29:1346–+, December 1997.
- [54] T. Vandehei, K. Griest, M. Lehner, C. Alcock, D. Alves, K. Cook, S. Marshall, D. Minniti, R. Allsman, T. Axelrod, K. Freeman, B. Peterson, A. Rodgers, M. Pratt, **Becker, A.**, C. Stubbs, A. Tomaney, D. Bennett, P. Quinn, W. Sutherland, and D. Welch. The MACHO Project: Preliminary Results from 4 years of SMC observations. *Bulletin of the American Astronomical Society*, 29:1346–+, December 1997.
- [55] K. Cook, C. Alcock, D. Alves, D. Minniti, S. Marshall, T. Vandehei, K. Griest, R. Allsman, T. Axelrod, K. Freeman, B. Peterson, A. Rodgers, M. Pratt, **Becker, A.**, C. Stubbs, A. Tomaney, M. Lehner, D. Bennett, C. Nelson, P. Quinn, W. Sutherland, and D. Welch. The MACHO Project: Preliminary Results from 4 years of LMC observations. *Bulletin of the American Astronomical Society*, 29:1346–+, December 1997.

- [56] D. Minniti, C. Alcock, D. Alves, K. Cook, S. Marshall, R. Allsman, T. Axelrod, K. Freeman, B. Peterson, A. Rodgers, K. Griest, T. Vandehei, **Becker, A.**, M. Pratt, C. Stubbs, A. Tomaney, D. Bennett, M. Lehner, P. Quinn, W. Sutherland, and D. Welch. The MACHO Bulge Database: Microlensing and Galactic Structure. *Bulletin of the American Astronomical Society*, 29:1243–+, December 1997.
- [57] G. C. Clayton, D. L. Welch, D. Kilkeny, C. Alcock, D. Alves, K. H. Cook, S. L. Marshall, D. Minniti, D. P. Bennett, R. A. Allsman, **Becker, A.**, M. R. Pratt, C. W. Stubbs, T. S. Axelrod, K. C. Freeman, B. A. Peterson, A. W. Rodgers, P. J. Quinn, K. Griest, J. A. Guern, M. J. Lehner, and W. Sutherland. The MACHO Project LMC Variable Star Inventory: How Bright Are the R Coronae Borealis Stars? *Bulletin of the American Astronomical Society*, 28:1400–+, December 1996.
- [58] A. J. Rorabeck, C. Alcock, R. A. Allsman, D. R. Alves, T. S. Axelrod, **Becker, A.**, D. P. Bennett, K. H. Cook, K. C. Freeman, K. Griest, J. A. Guern, M. J. Lehner, S. L. Marshall, D. Minniti, B. A. Peterson, M. R. Pratt, P. J. Quinn, A. W. Rodgers, C. W. Stubbs, W. Sutherland, and D. L. Welch. Searching for singly-periodic 2H Cepheids in the LMC. *Bulletin of the American Astronomical Society*, 28:1400–+, December 1996.
- [59] M. Pratt, **Becker, A.**, C. Stubbs, C. Alcock, D. Alves, K. Cook, S. Marshall, D. Minniti, R. Allsman, T. Axelrod, K. Freeman, B. Peterson, A. Rodgers, D. Bennett, K. Griest, J. Guern, M. Lehner, T. Vandehei, P. Quinn, W. Sutherland, and D. Welch. Periodic Variable Star Timing with MACHO Lightcurves. *Bulletin of the American Astronomical Society*, 28:1400–+, December 1996.
- [60] D. L. Welch, R. A. Allsman, C. Alcock, D. Alves, D. P. Bennett, K. H. Cook, S. L. Marshall, D. Minniti, T. S. Axelrod, K. C. Freeman, B. A. Peterson, A. W. Rodgers, P. J. Quinn, W. Sutherland, **Becker, A.**, M. R. Pratt, C. W. Stubbs, K. Griest, J. Guern, and M. Lehner. The MACHO Project LMC Variable Star Inventory: Improved Beat Cepheid Parameters. *Bulletin of the American Astronomical Society*, 28:919–+, May 1996.
- [61] G. C. Clayton, D. L. Welch, D. Kilkeny, C. Alcock, D. Alves, D. P. Bennett, K. H. Cook, S. L. Marshall, D. Minniti, R. A. Allsman, **Becker, A.**, M. R. Pratt, C. W. Stubbs, T. S. Axelrod, K. C. Freeman, B. A. Peterson, A. W. Rodgers, P. J. Quinn, K. Griest, J. A. Guern, M. J. Lehner, and W. Sutherland. The MACHO Project LMC Variable Star Inventory: New R Coronae Borealis Stars. *Bulletin of the American Astronomical Society*, 28:918–+, May 1996.
- [62] D. R. Alves, C. Alcock, K. H. Cook, R. A. Allsman, T. S. Axelrod, K. C. Freeman, B. A. Peterson, A. W. Rodgers, **Becker, A. C.**, C. W. Stubbs, D. P. Bennett, K. Griest, J. Guern, M. J. Lehner, S. L. Marshall, M. R. Pratt, P. J. Quinn, W. Sutherland, and D. Welch. The MACHO Project LMC Variable Star Inventory: The Cepheid Catalog. *Bulletin of the American Astronomical Society*, 27:1428–+, December 1995.
- [63] P. Purdue, C. Alcock, K. Cook, R. Allsman, D. Alves, T. Axelrod, K. Freeman, B. Peterson, A. Rodgers, **Becker, A.**, C. Stubbs, D. Bennett, K. Griest, J. Guern, M. Lehner,

- S. Marshall, M. Pratt, P. Quinn, W. Sutherland, and D. Welch. The MACHO Project LMC Variable Star Inventory: Aperiodic Blue Variables. *Bulletin of the American Astronomical Society*, 27:1428–+, December 1995.
- [64] K. Cook, C. Alcock, P. Purdue, R. Allsman, D. Alves, T. Axelrod, K. Freeman, B. Peterson, A. Rodgers, **Becker, A.**, C. Stubbs, D. Bennett, K. Griest, J. Guern, M. Lehner, S. Marshall, M. Pratt, P. Quinn, W. Sutherland, and D. Welch. The MACHO Project Variables in the Bulge: 1st Year Results. *Bulletin of the American Astronomical Society*, 27:1428–+, December 1995.
- [65] D. Bennett, C. Alcock, K. Cook, R. Allsman, D. Alves, T. Axelrod, K. Freeman, B. Peterson, A. Rodgers, K. Griest, J. Guern, M. Lehner, P. Quinn, S. Marshall, M. Pratt, **Becker, A.**, C. Stubbs, and W. Sutherland. The MACHO Project Second Year Gravitational Microlensing Results Toward the Large Magellanic Cloud. *Bulletin of the American Astronomical Society*, 27:1352–+, December 1995.
- [66] M. Pratt, S. Marshall, C. Alcock, D. Alves, K. Cook, P. Purdue, R. Allsman, T. Axelrod, K. Freeman, B. Peterson, A. Rodgers, T. Banks, T. Love, P. Yock, **Becker, A.**, D. Reiss, C. Stubbs, D. Bennett, K. Griest, J. Guern, M. Lehner, D. Maoz, P. Quinn, W. Sutherland, and D. Welch. The MACHO Project: Exotic Microlensing from GMAN. *Bulletin of the American Astronomical Society*, 27:1351–+, December 1995.
- [67] M. J. Lehner, K. Griest, J. Guern, C. Alcock, K. Cook, P. Purdue, R. Allsman, D. Alves, T. Axelrod, K. Freeman, B. Peterson, A. Rodgers, **Becker, A.**, C. Stubbs, D. Bennett, S. Marshall, M. Pratt, P. Quinn, W. Sutherland, and D. Welch. Limits on the Baryonic Content of the Galactic Halo in the  $10^{-7}$  -  $10^{-3}$ . *Bulletin of the American Astronomical Society*, 27:1351–+, December 1995.

## CIRCULARS AND NOTICES

---

- [1] J. Barentine, B. Bassett, **Becker, A.**, H. Brewington, F. Dejongh, J. Dembicky, D. L. Depoy, B. Dilday, M. Doi, E. Elson, J. Frieman, P. Garnavich, M. Harvanek, T. Gueth, J. Holtzman, K. Konishi, J. Krzesinski, H. Lampeitl, R. Kessler, B. Ketzeback, D. Long, O. Malanushenko, J. Marriner, J. L. Marshall, R. McMillan, G. Miknaitis, T. Morokuma, R. Nichol, K. Pan, J. L. Prieto, M. Richmond, A. Riess, R. Romani, M. Sako, D. Schneider, M. Smith, S. Snedden, M. Subbarao, N. Takanashi, K. Tokita, K. van der Heyden, and N. Yasuda. Supernovae 2005mh-2005mq. *Central Bureau Electronic Telegrams*, 339, 1 (2005). Edited by Green, D. W. E., 339:1–+, December 2005.
- [2] J. Barentine, B. Bassett, **Becker, A.**, H. Brewington, F. Dejongh, J. Dembicky, D. L. Depoy, B. Dilday, M. Doi, E. Elson, J. Frieman, P. Garnavich, M. Harvanek, T. Gueth, J. Holtzman, K. Konishi, J. Krzesinski, H. Lampeitl, R. Kessler, B. Ketzeback, D. Long, O. Malanushenko, J. Marriner, J. L. Marshall, R. McMillan, G. Miknaitis, T. Morokuma, R. Nichol, K. Pan, J. L. Prieto, M. Richmond, A. Riess, R. Romani, M. Sako, D. Schneider, M. Smith, S. Snedden, M. Subbarao, N. Takanashi, K. Tokita, K. van der Heyden, and N. Yasuda. Supernovae 2005lb-2005lq. *Central Bureau Electronic Telegrams*, 315, 1 (2005). Edited by Green, D. W. E., 315:1–+, December 2005.
- [3] J. Barentine, B. Bassett, **Becker, A.**, H. Brewington, F. Dejongh, J. Dembicky, D. L. Depoy, B. Dilday, M. Doi, E. Elson, J. Frieman, P. Garnavich, M. Harvanek, T. Gueth, J. Holtzman, K. Konishi, J. Krzesinski, H. Lampeitl, R. Kessler, B. Ketzeback, D. Long, O. Malanushenko, J. Marriner, J. L. Marshall, R. McMillan, G. Miknaitis, T. Morokuma, R. Nichol, K. Pan, J. L. Prieto, M. Richmond, A. Riess, R. Romani, M. Sako, D. Schneider, M. Smith, S. Snedden, M. Subbarao, N. Takanashi, K. Tokita, K. van der Heyden, and N. Yasuda. Supernovae 2005kn-2005ku. *Central Bureau Electronic Telegrams*, 304, 1 (2005). Edited by Green, D. W. E., 304:1–+, November 2005.
- [4] J. Barentine, B. Bassett, **Becker, A.**, H. Brewington, F. Dejongh, J. Dembicky, D. L. Depoy, B. Dilday, M. Doi, E. Elson, J. Frieman, P. Garnavich, M. Harvanek, T. Gueth, J. Holtzman, J. Krzesinski, H. Lampeitl, R. Kessler, B. Ketzeback, K. Konishi, D. Long, O. Malanushenko, J. Marriner, J. L. Marshall, R. McMillan, G. Miknaitis, R. Nichol, K. Pan, J. L. Prieto, M. Richmond, A. Riess, R. Romani, M. Sako, D. Schneider, M. Smith, S. Snedden, M. Subbarao, N. Takanashi, K. van der Heyden, and N. Yasuda. Supernova 2005kb. *Central Bureau Electronic Telegrams*, 281, 1 (2005). Edited by Green, D. W. E., 281:1–+, November 2005.
- [5] J. Barentine, B. Bassett, **Becker, A.**, R. Bender, M. Bremer, H. Brewington, F. Dejongh, J. Dembicky, D. L. Depoy, B. Dilday, M. Doi, A. Edge, E. Elson, J. Frieman, P. Garnavich, A. Goobar, M. Harvanek, T. Gueth, J. Holtzman, U. Hopp, W. Kolatschny, K. Konishi, J. Krzesinski, D. Lamenti, H. Lampeitl, R. Kessler, B. Ketzeback, D. Long, J. Marriner, J. L. Marshall, R. McMillan, J. Mendez, G. Miknaitis, T. Morokuma, R. Nichol, K. Pan, J. L. Prieto, M. Richmond, A. Riess, R. Romani, K. Romer, P. Ruiz-Lapuente, M. Sako, D. Schneider, M. Smith, S. Snedden, M. Subbarao, N. Takanashi, K. Tokita, K. van der Heyden, C. Wheeler, N. Yasuda, A. Fil-

- ippenko, and R. Foley. Supernovae 2005ht, 2005hv, 2005hy, 2005hz, 2005id, 2005ij, 2005is-2005ka. *Central Bureau Electronic Telegrams*, 280, 1 (2005). Edited by Green, D. W. E., 280:1–+, November 2005.
- [6] J. Barentine, B. Bassett, **Becker, A.**, R. Bender, M. Bremer, H. Brewington, F. Dejongh, J. Dembicky, D. L. Depoy, B. Dilday, M. Doi, A. Edge, E. Elson, J. Frieman, P. Garnavich, A. Goobar, M. Harvanek, T. Gueth, J. Holtzman, U. Hopp, W. Kollatschny, K. Konishi, J. Krzesinski, D. Lamenti, H. Lampeitl, R. Kessler, B. Ketzeback, D. Long, J. Marriner, J. L. Marshall, R. McMillan, J. Mendez, G. Miknaitis, T. Morokuma, R. Nichol, K. Pan, J. L. Prieto, M. Richmond, A. Riess, R. Romani, K. Romer, P. Ruiz-Lapuente, M. Sako, D. Schneider, M. Smith, S. Snedden, M. Subbarao, N. Takanashi, K. Tokita, K. van der Heyden, C. Wheeler, and N. Yasuda. Supernovae 2005hk-2005ik. *Central Bureau Electronic Telegrams*, 268, 1 (2005). Edited by Green, D. W. E., 268:1–+, November 2005.
- [7] J. Barentine, B. Bassett, **Becker, A.**, R. Bender, M. Bremer, H. Brewington, F. Dejongh, J. Dembicky, D. L. Depoy, B. Dilday, M. Doi, A. Edge, E. Elson, J. Frieman, P. Garnavich, A. Goobar, M. Harvanek, T. Gueth, J. Holtzman, U. Hopp, W. Kollatschny, J. Krzesinski, D. Lamenti, H. Lampeitl, R. Kessler, B. Ketzeback, K. Konishi, D. Long, J. Marriner, J. L. Marshall, R. McMillan, J. Mendez, G. Miknaitis, R. Nichol, K. Pan, J. L. Prieto, M. Richmond, A. Riess, R. Romani, K. Romer, P. Ruiz-Lapuente, M. Sako, D. Schneider, M. Smith, S. Snedden, M. Subbarao, N. Takanashi, K. van der Heyden, C. Wheeler, and N. Yasuda. Supernova 2005hc in MCG +00-6-3. *Central Bureau Electronic Telegrams*, 259, 1 (2005). Edited by Green, D. W. E., 259:1–+, October 2005.
- [8] J. Barentine, B. Bassett, **Becker, A.**, R. Bender, M. Bremer, H. Brewington, F. Dejongh, J. Dembicky, D. L. Depoy, B. Dilday, M. Doi, A. Edge, E. Elson, J. Frieman, P. Garnavich, A. Goobar, M. Harvanek, T. Gueth, J. Holtzman, U. Hopp, W. Kollatschny, J. Krzesinski, D. Lamenti, H. Lampeitl, R. Kessler, B. Ketzeback, K. Konishi, D. Long, J. Marriner, J. L. Marshall, R. McMillan, J. Mendez, G. Miknaitis, R. Nichol, K. Pan, J. L. Prieto, M. Richmond, A. Riess, R. Romani, K. Romer, P. Ruiz-Lapuente, M. Sako, D. Schneider, M. Smith, S. Snedden, M. Subbarao, N. Takanashi, K. van der Heyden, C. Wheeler, and N. Yasuda. Supernovae 2005go-2005gy. *Central Bureau Electronic Telegrams*, 254, 1 (2005). Edited by Green, D. W. E., 254:1–+, October 2005.
- [9] J. Barentine, B. Bassett, **Becker, A.**, M. Bremer, H. Brewington, F. Dejongh, J. Dembicky, D. L. Depoy, B. Dilday, M. Doi, A. Edge, E. Elson, J. Frieman, P. Garnavich, A. Goobar, M. Harvanek, J. Holtzman, J. Krzesinski, D. Lamenti, H. Lampeitl, R. Kessler, B. Ketzeback, K. Konishi, D. Long, J. Marriner, J. L. Marshall, R. McMillan, J. Mendez, R. Nichol, K. Pan, J. L. Prieto, M. Richmond, A. Riess, R. Romani, K. Romer, P. Ruiz-Lapuente, M. Sako, D. Schneider, M. Smith, S. Snedden, M. Subbarao, N. Takanashi, K. van der Heyden, and N. Yasuda. Supernovae 2005eh and 2005ex-2005gj. *Central Bureau Electronic Telegrams*, 247, 1 (2005). Edited by Green, D. W. E., 247:1–+, October 2005.

- [10] J. Barentine, B. Bassett, **Becker, A.**, H. Brewington, F. Dejongh, J. Dembicky, B. Dilday, J. Frieman, P. Garnavich, M. Harvanek, J. Holtzman, J. Krzesinski, H. Lampeitl, R. Kessler, B. Ketzeback, D. Long, J. Marriner, R. McMillan, R. Nichol, K. Pan, M. Richmond, A. Riess, R. Romani, M. Sako, M. Smith, S. Snedden, and K. van der Heyden. Supernovae 2005ed, 2005ef, 2005eg, 2005eh, 2005ei. *Central Bureau Electronic Telegrams*, 229, 1 (2005). Edited by Green, D. W. E., 229:1–+, September 2005.
- [11] L. H. Wasserman, D. Wittman, **Becker, A.**, W. Ryan, W. H. Ryan, and M. W. Buie. Minor Planet Observations [807 Cerro Tololo]. *Minor Planet Circulars*, 5435:9–+, June 2005.
- [12] J. Estrada, J. Marriner, **Becker, A.**, G. Miknaitis, J. Kaplan, and R. Romani. Supernovae 2004ht-2004io. *IAU Circ.*, 8484:4–+, February 2005.
- [13] L. H. Wasserman, D. Wittman, **Becker, A.**, D. Rabinowitz, I. dell’Antonio, G. Squires, C. Navarro, D. Norman, and V. Margoniner. Minor Planet Observations [807 Cerro Tololo]. *Minor Planet Circulars*, 5180:3–+, May 2004.
- [14] M. W. Buie, D. Wittman, C. W. Hergenrother, D. J. Tholen, A. Block, D. E. Trilling, A. S. Rivkin, C. Hergenrother, T. B. Spahr, J. W. Parker, L. H. Wasserman, J. Dilapo, M. O’Connor, G. Kielick, I. dell’Antonio, A. B. Jordan, R. L. Millis, J. R. Loring, G. C. Panova, K. B. Clancy, E. I. Chiang, J. F. Kane, and **Becker, A.** Minor Planet Observations [695 Kitt Peak]. *Minor Planet Circulars*, 5164:2–+, May 2004.
- [15] D. Norman, G. Squires, J. Kubo, and **Becker, A.** Supernovae 2004ba and 2004bb. *IAU Circ.*, 8314:2–+, March 2004.
- [16] I. Dell’Antonio, G. Squires, C. Navarro, **Becker, A.**, D. Wittman, and B. G. Marsden. 2003 FM129, 2003 GH55. *Minor Planet Electronic Circulars*, pages 29–+, February 2004.
- [17] L. H. Wasserman, J. W. Parker, D. Wittman, and **Becker, A.** Minor Planet Observations [807 Cerro Tololo]. *Minor Planet Circulars*, 5090:4–+, February 2004.
- [18] M. W. Buie, R. L. Allen, D. Wittman, C. W. Hergenrother, I. dell’Antonio, L. H. Wasserman, D. E. Trilling, R. L. Millis, E. I. Chiang, J. R. Loring, A. Block, S. M. Larson, **Becker, A.**, J. F. Kane, K. B. Clancy, S. N. Hylton, J. J. Qu, L. E. Hutchison, and S. D. Kern. Minor Planet Observations [695 Kitt Peak]. *Minor Planet Circulars*, 5071:1–+, February 2004.
- [19] A. Clocchiatti, D. Minitti, C. Aguilera, **Becker, A.**, K. Cook, R. Covarrubias, S. Hawley, R. Hiriart, S. Keller, A. Miceli, G. Miknaitis, S. Nikolaev, K. Olsen, J. Prieto, G. Proctor, A. Rest, B. Schmidt, C. Smith, C. Stubbs, N. Suntzeff, and D. Welch. Quasar Outburst in Mensa. *IAU Circ.*, 8258:1–+, December 2003.
- [20] L. H. Wasserman, D. Wittman, I. dell’Antonio, G. Squires, C. Navarro, and **Becker, A.** Minor Planet Observations [807 Cerro Tololo]. *Minor Planet Circulars*, 4889:7–+, June 2003.

- [21] **Becker, A.** Unusual Variable Object in Leo. *IAU Circ.*, 8094:2–+, March 2003.
- [22] **Becker, A.** Unknown Variable. *IAU Circ.*, 8093:2–+, March 2003.
- [23] T. Boles, B. Beutler, W. Li, **Becker, A.**, D. Loomba, R. Wilcox, and M. Schwartz. Supernovae 2003bv, 2003bw, 2003bx, 2003by, 2003bz, 2003ca. *IAU Circ.*, 8093:1–+, March 2003.
- [24] R. C. Smith, N. Suntzeff, C. Stubbs, C. Aguilera, B. Barris, **Becker, A.**, P. Challis, R. Chornock, A. Clocchiatti, R. Covarrubias, A. V. Filippenko, P. Garnavich, S. T. Holland, S. Jha, R. Kirshner, K. Krisciunas, B. Leibundgut, W. Li, T. Matheson, A. Miceli, G. Miknaitis, A. Rest, A. Riess, B. Schmidt, J. Sollerman, J. Spyromilio, J. Tonry, S. Nikolaev, and M. Hamuy. Supernovae 2002iu-2002je. *IAU Circ.*, 8021:1–+, November 2002.
- [25] **Becker, A.**, P. Baca, I. Dell’Antonio, and D. Norman. Supernovae. *IAU Circ.*, 7833:1–+, February 2002.
- [26] **Becker, A.**, T. Tyson, D. Wittman, M. Lopez-Caniego, D. Norman, A. Clocchiatti, I. Dell’Antonio, and G. Squires. Supernovae 2002aj, 2002ak, 2002al, 2002am. *IAU Circ.*, 7804:1–+, January 2002.
- [27] **Becker, A.**, M. Lopez-Caniego, D. Norman, D. Wittman, J. P. Halpern, and M. Jackson. Optical Transient in Sextans. *IAU Circ.*, 7803:2–+, January 2002.
- [28] C. Stubbs, A. Rest, R. Covarrubias, **Becker, A.**, C. Smith, K. Olsen, N. Suntzeff, R. Hiriart, D. Welch, D. Lepischak, A. Clocchiatti, B. Schmidt, and K. Cook. Supernova 2002B in Anonymous Galaxy. *IAU Circ.*, 7791:1–+, January 2002.
- [29] A. Fruchter, L. Strolger, B. Mobasher, J. Rhoads, A. Levan, I. Burud, and **Becker, A.** XRF 020903: r band observations. *GRB Coordinates Network*, 1557:1–+, 2002.
- [30] A. Clocchiatti, P. C. Boeshaar, **Becker, A. C.**, and D. Wittman. GRB optical counterpart candidate in GCN 1217 is M dwarf. *GRB Coordinates Network*, 1218:1–+, 2002.
- [31] **Becker, A. C.**, D. Wittman, J. A. Tyson, and A. Clocchiatti. Possible optical counterpart to a GRB. *GRB Coordinates Network*, 1217:1–+, 2002.
- [32] D. M. Wittman, **Becker, A. C.**, V. E. Margoniner, J. A. Tyson, I. P. Dell’Antonio, D. Loomba, R. A. Schommer, R. C. Smith, H. Aussel, D. Sanders, D. Stern, A. Dey, S. Dawson, and H. Spinrad. Supernova 2000fq. *IAU Circ.*, 7551:1–+, December 2000.
- [33] D. Kirkman, I. Dell’Antonio, R. A. Schommer, G. Squires, J. A. Tyson, D. Wittman, **Becker, A.**, C. Stubbs, and G. Bernstein. Supernova 2000bj in Anonymous Galaxy. *IAU Circ.*, 7398:2–+, April 2000.
- [34] R. H. McNaught, M. Hartley, I. P. Griffin, **Becker, A.**, C. Stubbs, and J. Perez. Comet C/1999 T1 (McNaught-Hartley). *IAU Circ.*, 7273:1–+, October 1999.

- [35] **Becker, A.** Microlensing Event Towards the LMC. *IAU Circ.*, 7188:1–+, June 1999.
- [36] **Becker, A.** and P. Garnavich. Supernova 1999J. *IAU Circ.*, 7096:4–+, January 1999.
- [37] **Becker, A.**, F. Winkler, and D. Paul. Variable in the Large Magellanic Cloud. *IAU Circ.*, 7087:1–+, January 1999.
- [38] **Becker, A.** Supernova 1998er in GH 9-2. *IAU Circ.*, 7046:2–+, November 1998.
- [39] **Becker, A.**, S. Rhie, and D. Bennett. Microlensing Event. *IAU Circ.*, 6935:1–+, June 1998.
- [40] A. C. Becker, D. P. Bennett, N. Butler, B. A. Peterson, S. H. Rhie, S. E. Thomson, S. E. Turner, and E. Turner. Microlensing Event. *IAU Circ.*, 6720:1–+, August 1997.
- [41] D. Minniti, **Becker, A.**, and D. Bennett. Microlensing Event in Large Magellanic Cloud. *IAU Circ.*, 6485:1–+, October 1996.
- [42] C. Alcock, T. Axelrod, R. Allsman, D. Alves, **Becker, A.**, D. Bennett, K. Cook, K. Freeman, K. Griest, J. Guern, M. Lehner, S. Marshall, B. Peterson, M. Pratt, P. Quinn, A. Rodgers, C. Stubbs, W. Sutherland, and D. Welch. Probable Gravitational Microlensing Event. *IAU Circ.*, 6312:1–+, February 1996.