

CURRICULUM VITAE

Thomas Matheson

Work Address:

National Optical Astronomy Observatory
NOAO System Science Center
950 North Cherry Avenue
Tucson, AZ 85719, USA
tel: (520) 318-8517
fax: (520) 318-8360
e-mail: matheson@noao.edu
WWW: <http://www.noao.edu/noao/staff/matheson/>

Education:

UNIVERSITY OF CALIFORNIA, BERKELEY, Berkeley, CA
DEPARTMENT OF ASTRONOMY

Ph.D. received June 2000

M.A. received June 1992

PhD Thesis Topic: The Spectral Characteristics
of Stripped-Envelope Supernovae

Thesis Advisor: Prof. Alexei V. Filippenko

HARVARD UNIVERSITY, Cambridge, MA
DEPARTMENT OF ASTRONOMY & ASTROPHYSICS AND PHYSICS

A.B. *magna cum laude*, received June 1989

Senior Thesis Topic: Transients in the Solar Transition Region

Thesis Advisor: Prof. Robert W. Noyes

Employment:

NATIONAL OPTICAL ASTRONOMY OBSERVATORY
NOAO SYSTEM SCIENCE CENTER

Associate Astronomer

2009 – present

Assistant Astronomer

2004 – 2009

HARVARD-SMITHSONIAN CENTER FOR ASTROPHYSICS
OPTICAL AND INFRARED DIVISION

Post-doctoral fellow

2000 – 2004

UNIVERSITY OF CALIFORNIA, Berkeley
DEPARTMENT OF ASTRONOMY

Research Assistant

1991 – 2000

HARVARD-SMITHSONIAN CENTER FOR ASTROPHYSICS
SOLAR AND STELLAR PHYSICS DIVISION

Research Assistant

1989 – 1990

Teaching:

HARVARD UNIVERSITY, DEPARTMENT OF ASTRONOMY, <u>Teaching Assistant</u>	2001, 2003
UNIVERSITY OF CALIFORNIA, BERKELEY, DEPARTMENT OF ASTRONOMY <u>Instructor, Stellar Structure and Evolution</u>	1992
UNIVERSITY OF CALIFORNIA, BERKELEY, DEPARTMENT OF ASTRONOMY <u>Teaching Assistant</u>	1990 – 1991
HARVARD UNIVERSITY, DEPARTMENT OF ASTRONOMY <u>Teaching Assistant</u>	1989
HARVARD UNIVERSITY, DEPARTMENT OF MATHEMATICS <u>Teaching Assistant</u>	1987 – 1989

Awards:

Gruber Prize for Cosmology (as part of the Supernova Cosmology Project)	2007
Certificate for Distinction in Teaching, Harvard University	2001, 2003
Outstanding Graduate Student Instructor Award, U.C. Berkeley	1994
National Science Foundation Fellowship	1990 – 1993
Harvard College Scholarship, Harvard University	1985 – 1989

Ground-Based Observing:

GEMINI 8-M, optical/near-IR spectroscopy & imaging
 KECK 10-M, optical spectroscopy
 LICK 3-M, optical spectroscopy
 LICK 1-M, optical imaging
 MMT 6.5-M, optical spectroscopy & imaging
 MAGELLAN 6.5-M, optical spectroscopy & imaging
 FLWO 1.2-M, optical imaging
 WIYN 3.5-M, optical imaging
 KPNO 4-M, optical spectroscopy & imaging
 KPNO 2.1-M, optical imaging

Miscellaneous:

Have 106 papers in refereed journals (11 as the first author, 15 as the second/third author).

Papers cited over 15,000 times to date.

Work described in general audience articles in: *BBC.com*, *Nature*, *New Scientist*, *New York Times*, *Science*, *Sky & Telescope*, *The Economist*, *Washington Post*, *Physics World*, and others.

Frequent referee for: AJ, A&A, ApJ, ApJL, MNRAS, Nature, PASJ, and PASP.

Refereed Publications:

106. Wang, X., et al. (incl. **Matheson, T.**) 2012, 749, 126. “Evidence for Type Ia Supernova Diversity from Ultraviolet Observations with the Hubble Space Telescope.”
105. Van Dyk, S. D., & **Matheson, T.** 2012, ApJ, 746, 179. “It’s Alive! The Supernova Impostor 1961V.”
104. Smith, N., et al. (incl. **Matheson, T.**) 2012, AJ, 143, 17. “Systematic Blueshift of Line Profiles in the Type IIn Supernova 2010jl: Evidence for Post-shock Dust Formation?”
103. Arcavi, I., et al. (incl. **Matheson, T.**) 2011, ApJL, 742, 18. “SN 2011dh: Discovery of a Type IIB Supernova from a Compact Progenitor in the Nearby Galaxy M51.”
102. Krisciunas, K., et al. (incl. **Matheson, T.**) 2011, AJ, 142, 74. “The Most Slowly Declining Type Ia Supernova 2001ay.”
101. Kleiser, I. K. W., et al. (incl. **Matheson, T.**) 2011, MNRAS, 415, 372. “Peculiar Type II Supernovae from Blue Supergiants.”
100. Shafter, A. W., Darnley, M. J., Hornoch, K., Filippenko, A. V., Bode, M. F., Ciardullo, R., Misselt, K. A., Hounsell, R. A., Chornock, R., & **Matheson, T.** 2011, ApJ, 734, 12. “A Spectroscopic and Photometric Survey of Novae in M31.”
99. Smith, N., et al. (incl. **Matheson, T.**) 2011, ApJ, 732, 63. “A Massive Progenitor of the Luminous Type IIn Supernova 2010jl.”
98. Rest, A., et al. (incl. **Matheson, T.**) 2011, ApJ, 732, 3. “Direct Confirmation of the Asymmetry of the Cas A Supernova with Light Echoes.”
97. Rest, A., et al. (incl. **Matheson, T.**) 2011, ApJ, 729, 88. “Pushing the Boundaries of Conventional Core-collapse Supernovae: The Extremely Energetic Supernova SN 2003ma.”
96. Olivares E., F., et al. (incl. **Matheson, T.**) 2010, ApJ, 715, 853. “The Standardized Candle Method for Type II Plateau Supernovae.”
95. Maurer, J. I., et al. (incl. **Matheson, T.**) 2010, MNRAS, 402, 172. “Characteristic Velocities of Stripped-Envelope Core-Collapse Supernova Cores.”
94. Hicken, M., et al. (incl. **Matheson, T.**) 2009, ApJ, 700, 357. “CfA3: 185 Type Ia Supernova Light Curves from the CfA.”
93. Jones, M. I., et al. (incl. **Matheson, T.**) 2009, ApJ, 696, 1194. “Distance Determination to 12 Type II Supernovae Using the Expanding Photosphere Method.”
92. Foley, R. J., **Matheson, T.**, et al. 2009, AJ, 137, 3731. “Spectroscopy of High-Redshift Supernovae from the Essence Project: The First Four Years.”
91. Dessart, L., Hillier, D. J., Gezari, S., Basa, S., & **Matheson, T.** 2009, MNRAS, 394, 21. “SN 1994W: An Interacting Supernova or Two Interacting Shells?”
90. Blondin, S., Prieto, J. L., Patat, F., Challis, P., Hicken, M., Kirshner, R. P., **Matheson, T.**, & Modjaz, M. 2009, ApJ, 693, 207. “A Second Case of Variable Na I D Lines in a Highly Reddened Type Ia Supernova.”

89. Sauer, D. N., Mazzali, P. A., Blondin, S., Stehle, M., Benetti, S., Challis, P., Filippenko, A. V., Kirshner, R. P., Li, W., & **Matheson, T.** 2008, MNRAS, 391, 1605. “Properties of the Ultraviolet Flux of Type Ia Supernovae: An Analysis with Synthetic Spectra of SN 2001ep and SN 2001eh.”
88. Hoffman, J. L., Leonard, D. C., Chornock, R., Filippenko, A. V., Barth, A. J., & **Matheson, T.** 2008, ApJ, 688, 1186. “The Dual-Axis Circumstellar Environment of the Type II In Supernova 1997eg.”
87. Modjaz, M., Kirshner, R. P., Blondin, S., Challis, P., & **Matheson, T.** 2008, ApJL, 687, 9. “Double-Peaked Oxygen Lines Are Not Rare in Nebular Spectra of Core-Collapse Supernovae.”
86. Gal-Yam, A., et al. (incl. **Matheson, T.**) 2008, ApJL, 685, 117. “*GALEX* Spectroscopy of SN 2005ay Suggests Ultraviolet Spectral Uniformity among Type II-P Supernovae.”
85. Foley, R. J., et al. (incl. **Matheson, T.**) 2008, ApJ, 684, 68. “Constraining Cosmic Evolution of Type Ia Supernovae.”
84. Blondin, S., et al. (incl. **Matheson, T.**) 2008, ApJ, 682, 724. “Time Dilation in Type Ia Supernova Spectra at High Redshift.”
83. Becker, A. C., et al. (incl. **Matheson, T.**) 2008, ApJL, 682, 53. “Exploring the Outer Solar System with the ESSENCE Supernova Survey.”
82. Rest, A., et al. (incl. **Matheson, T.**) 2008, ApJL, 681, 81. “Scattered-Light Echoes from the Historical Galactic Supernovae Cassiopeia A and Tycho (SN 1572).”
81. Heng, K., Lazzati, D., Perna, R., Garnavich, P., Noriega-Crespo, A., Bersier, D., **Matheson, T.**, & Pahre, M. 2008, ApJ, 681, 1116. “A Direct Measurement of the Dust Extinction Curve in an Intermediate-Redshift Galaxy”
80. Rest, A., **Matheson, T.**, et al. 2008, ApJ, 680, 1137. “Spectral Identification of an Ancient Supernova Using Light Echoes in the Large Magellanic Cloud.”
79. **Matheson, T.**, et al. 2008, AJ, 135, 1598. “Optical Spectroscopy of Type Ia Supernovae.”
78. Maeda, K., et al. (incl. **Matheson, T.**) 2008, Science, 319, 1220. “Asphericity in Supernova Explosions from Late-Time Spectroscopy.”
77. Valenti, S., et al. (incl. **Matheson, T.**) 2008, MNRAS, 383, 1485. “The Broad-Lined Type Ic Supernova 2003jd.”
76. Davis, T. M., et al. (incl. **Matheson, T.**) 2007, ApJ, 666, 716. “Scrutinizing Exotic Cosmological Models Using ESSENCE Supernova Data Combined with Other Cosmological Probes.”
75. Wood-Vasey, W. M., et al. (incl. **Matheson, T.**) 2007, ApJ, 666, 694. “Observational Constraints on the Nature of Dark Energy: First Cosmological Results from the ESSENCE Supernova Survey.”
74. Miknaitis, G., et al. (incl. **Matheson, T.**) 2007, ApJ, 666, 674. “The ESSENCE Supernova Survey: Survey Optimization, Observations, and Supernova Photometry.”

73. Hao, H., et al. (incl. **Matheson, T.**) 2007, ApJ, 659, 99L. “Strongly Variable $z=1.48$ Fe II and Mg II Absorption in the Spectra of $z=4.05$ GRB 060206.”
72. Stanek, K. Z., et al. (incl. **Matheson, T.**) 2007, ApJ, 654, 21L. “‘Anomalous’ Optical Gamma-Ray Burst Afterglows Are Common: Two $z \sim 4$ Bursts, GRB 060206 and GRB 060210.”
71. Bonanos, A., et al. (incl. **Matheson, T.**) 2006, ApJ, 652, 313. “The First DIRECT Distance Determination to a Detached Eclipsing Binary in M33.”
70. Clocchiatti, A., et al. (incl. **Matheson, T.**) 2006, ApJ, 642, 1. “*Hubble Space Telescope* and Ground-based Observations of Type Ia Supernovae at Redshift 0.5: Cosmological Implications.”
69. Blondin, S., et al. (incl. **Matheson, T.**) 2006, AJ, 131, 1648. “Using Line Profiles to Test the Fraternity of Type Ia Supernovae at High and Low Redshifts.”
68. Jha, S., et al. (incl. **Matheson, T.**) 2006, AJ, 131, 527. “*UBVRI* Light Curves of 44 Type Ia Supernovae.”
67. Krisciunas, K., et al. (incl. **Matheson, T.**) 2005, AJ, 130, 2453. “*Hubble Space Telescope* Observations of Nine High-Redshift ESSENCE Supernovae.”
66. Mazzali, P., et al. (incl. **Matheson, T.**) 2005, Science, 308, 1284. “An Asymmetric Energetic Type Ic Supernova Viewed Off-Axis, and a Link to Gamma Ray Bursts.”
65. **Matheson, T.**, et al. 2005, AJ, 129, 2352. “Spectroscopy of High-Redshift Supernovae from the ESSENCE Project: The First Two Years.”
64. Fransson, C., et al. (incl. **Matheson, T.**) 2005, ApJ, 622, 991. “*Hubble Space Telescope* and Ground-based Observations of SN 1993J and SN 1998S: CNO Processing in the Progenitors.”
63. Price, A., et al. (incl. **Matheson, T.**) 2004, PASP, 116, 1117. “A New Cataclysmic Variable in Hercules.”
62. Mazzali, P. A., Deng, J., Maeda, K., Nomoto, K., Filippenko, A. V., & **Matheson, T.** 2004, ApJ, 614, 858. “Properties of Two Hypernovae Entering the Nebular Phase: SN 1997ef and SN 1997dq.”
61. Strolger, L.-G., et al. (incl. **Matheson, T.**) 2004, ApJ, 613, 200. “The Hubble Higher z ‘Supernova Search: Supernovae to z 1.6 and Constraints on Type Ia Progenitor Models.” [Erratum: ApJ, 635, 1370.]
60. Chugai, N. N., Blinnikov, S. I., Cumming, R. J., Lundqvist, P., Bragaglia, A., Filippenko, A. V., Leonard, D. C., **Matheson, T.**, & Sollerman, J. 2004, MNRAS, 352, 1213. “The Type II In Supernova 1994W: Evidence for the Explosive Ejection of a Circumstellar Envelope.”
59. Barris, B., et al. (incl. **Matheson, T.**) 2004, ApJ, 602, 571. “23 High Redshift Supernovae from the IfA Deep Survey: Doubling the SN Sample at $z > 0.7$.”
58. Mazzali, P. A., Deng, J., Tominaga, N., Maeda, K., Nomoto, K., **Matheson, T.**, Kawabata, K. S., Stanek, K. Z., & Garnavich, P. M. 2003, ApJ, 599, L95. “The Type Ic Hypernova SN 2003dh/GRB 030329.”

57. **Matheson, T.**, et al. 2003, ApJ, 599, 394. “Photometry and Spectroscopy of GRB 030329 and Its Associated Supernova 2003dh: The First Two Months.”
56. Williams, B. F., et al. (incl. **Matheson, T.**) 2003, AJ, 126, 2608. “Imaging and Demography of the Host Galaxies of High-Redshift Type Ia Supernovae.”
55. Branch, D., Garnavich, P., **Matheson, T.**, Baron, E., Thomas, R. C., Hatano, K., Challis, P., Jha, S., & Kirshner, R. P. 2003, AJ, 126, 1489. “Optical Spectra of the Type Ia Supernova 1998aq.”
54. Tonry, J. L., et al. (incl. **Matheson, T.**) 2003, ApJ, 594, 1. “Cosmological Results from High-z Supernovae.”
53. Stanek, K. Z., **Matheson, T.**, Garnavich, P. M., Martini, P., Berlind, P., Caldwell, N., Challis, P., Brown, W. R., Schild, R., Krisciunas, K., Calkins, M. L., Lee, J. C., Hathi, N., Jansen, R. A., Windhorst, R., Echevarria, L., Eisenstein, D. J., Pindor, B., Olszewski, E. W., Harding, P., Holland, S. T., & Bersier, D. 2003, ApJ, 591, L17. “Spectroscopic Discovery of the Supernova 2003dh Associated with GRB 030329.”
52. Li, W., Filippenko, A. V., Chornock, R., Berger, E., Berlind, P., Calkins, M. L., Challis, P., Fassnacht, C., Jha, S., Kirshner, R. P., **Matheson, T.**, Sargent, W. L. W., Simcoe, R. A., Smith, G. H., & Squires, G. 2003, PASP, 115, 453. “SN 2002cx: The Most Peculiar Known Type Ia Supernova.”
51. Bersier, D., Stanek, K. Z., Winn, J. N., Grav, T., Holman, M. J., **Matheson, T.**, Mochejska, B., Steeghs, D., Walker, A. R., Garnavich, P. M., Quinn, J., Jha, S., Cook, K. H., Craig, W. W., Meintjes, P. J., & Calitz, J. J. 2003, ApJ, 584, L43. “The Unusual Optical Afterglow of the Gamma-Ray Burst GRB 021004: Color Changes and Short-Timescale Variability.”
50. **Matheson, T.**, Garnavich, P. M., Foltz, C., West, S., Williams, G., Falco, E., Calkins, M. L., Castander, F. J., Gawiser, E., Jha, S., Bersier, D., & Stanek, K. Z. 2003, ApJ, 582, L5. “The Spectroscopic Variability of GRB 021004.”
49. Garnavich, P. M., Stanek, K. Z., Wyrzykowski, L., Infante, L., Bendek, E., Bersier, D., Holland, S. T., Jha, S., **Matheson, T.**, Kirshner, R. P., Krisciunas, K., Phillips, M. M., & Carlberg, R. G. 2003, ApJ, 582, 924. “Discovery of the Low-Redshift Optical Afterglow of GRB 011121 and Its Progenitor Supernova SN 2001ke.”
48. Peterson, B. M., et al. (incl. **Matheson, T.**) 2002, ApJ, 581, 197. “Steps Toward Determination of the Size and Structure of the Broad-Line Region in Active Galactic Nuclei. XVI. A 13 Year Study of Spectral Variability in NGC 5548.”
47. Leonard, D. C., Filippenko, A. V., Li, W., **Matheson, T.**, Kirshner, R. P., Chornock, R., Van Dyk, S. D., Berlind, P., Calkins, M. L., Challis, P. M., Garnavich, P. M., Jha, S., & Mahdavi, A. 2002, AJ, 124, 2490. “A Study of the Type II-Plateau Supernova 1999gi and the Distance to Its Host Galaxy, NGC 3184.”
46. Poznanski, D., Gal-Yam, A., Maoz, D., Filippenko, A. V., Leonard, D. C., & **Matheson, T.** 2002, PASP, 114, 833. “Not Color-Blind: Using Multiband Photometry to Classify Supernovae.”

45. Pastorello, A., Turatto, M., Benetti, S., Cappellaro, E., Danziger, I. J., Mazzali, P. A., Patat, F., Filippenko, A. V., Schlegel, D. J., & **Matheson, T.** 2002, MNRAS, 333, 27. “The Type II_n Supernova 1995G: Interaction with the Circumstellar Medium.”
44. Branch, D., Benetti, S., Kasen, D., Baron, E., Jeffery, D. J., Hatano, K., Stathakis, R. A., Filippenko, A. V., **Matheson, T.**, Pastorello, A., Altavilla, G., Cappellaro, E., Rizzi, L., Turatto, M., Li, W., Leonard, D. C., & Shields, J. C. 2002, ApJ, 566, 1005. “Direct Analysis of Spectra of Type Ib Supernovae.”
43. Leonard, D. C., Filippenko, A. V., Gates, E. L., Li, W., Eastman, R. G., Barth, A. J., Bus, S. J., Chornock, R., Coil, A. L., Frink, S., Grady, C. A., Harris, A. W., Malkan, M. A., **Matheson, T.**, Quirrenbach, A., & Treffers, R. R. 2002, PASP, 114, 35. “The Distance to SN 1999em in NGC 1637 from the Expanding Photosphere Method.”
42. Ho, W. C. G., Van Dyk, S. D., Peng, C. Y., Filippenko, A. V., Leonard, D. C., **Matheson, T.**, Treffers, R. R., & Richmond, M. W. 2001, PASP, 113, 1349. “*BVRI* Photometry of Supernovae.”
41. **Matheson, T.** 2001, PASP, 113, 1155. “The Spectral Characteristics of Stripped-Envelope Supernovae.”
40. Jha, S., Pahre, M. A., Garnavich, P. M., Calkins, M. L., Kilgard, R. E., **Matheson, T.**, McDowell, J. C., Roll, J. B., & Stanek, K. Z. 2001, ApJ, 554, L155. “The Redshift of the Optical Transient Associated with GRB 010222.”
39. Clocchiatti, A., et al. (incl. **Matheson, T.**) 2001, ApJ, 553, 886. “The Type Ic SN 1990B in NGC 4568.”
38. Modjaz, M., Li, W., Filippenko, A. V., King, J. Y., Leonard, D. C., **Matheson, T.**, Treffers, R. R., & Riess, A. G. 2001, PASP, 113, 308. “The Subluminous Type Ia Supernova 1998de in NGC 252.”
37. **Matheson, T.**, Filippenko, A. V., Li, W., Leonard, D. C., & Shields, J. C. 2001, AJ, 121, 1648. “Optical Spectroscopy of Type Ib/c Supernovae.”
36. Larkin, J. E., Glassman, T. M., Wizinowich, P., Acton, D. S., Lai, O., Filippenko, A. V., Coil, A. L., & **Matheson, T.** 2000, PASP, 112, 1526. “Exploring the Structure of Distant Galaxies with Adaptive Optics on the Keck II Telescope.”
35. Coil, A. L., **Matheson, T.**, Filippenko, A. V., Leonard, D. C., Tonry, J., Riess, A. G., Challis, P., Clocchiatti, A., Garnavich, P. M., Hogan, C. J., Jha, S., Kirshner, R. P., Leibundgut, B., Phillips, M. M., Schmidt, B. P., Schommer, R. A., Smith, R. C., Soderberg, A. M., Spyromilio, J., Stubbs, C., Suntzeff, N. B., & Woudt, P. 2000, ApJ, 544, L111. “Optical Spectra of Type Ia Supernovae at $z = 0.46$ and $z = 1.2$.”
34. **Matheson, T.**, Filippenko, A. V., Barth, A. J., Ho, L. C., Leonard, D. C., Bershad, M. A., Davis, M., Finley, D. S., Fisher, D., González, R. A., Hawley, S. L., Koo, D. C., Li, W., Lonsdale, C. J., Schlegel, D., Smith, H. E., Spinrad, H., & Wirth, G. D. 2000, AJ, 120, 1487. “Optical Spectroscopy of Supernova 1993J During Its First 2500 Days.”
33. **Matheson, T.**, Filippenko, A. V., Ho, L. C., Barth, A. J., & Leonard, D. C. 2000, AJ, 120, 1499. “Detailed Analysis of Early to Late-Time Spectra of Supernova 1993J.”

32. Leonard, D. C., Filippenko, A. V., Barth, A. J., & **Matheson, T.** 2000, ApJ, 536, 239. “Evidence for Asphericity in the Type II_n Supernova SN 1998S.”
31. **Matheson, T.**, Filippenko, A. V., Chornock, R., Leonard, D. C., & Li, W. 2000, AJ, 119, 2303. “Helium Emission Lines in the Type Ic Supernova 1999cq.”
30. Goobar, A., et al. (incl. **Matheson, T.**) 2000, Physica Scripta Volume T, 85, 47. “The Acceleration of the Universe: Measurements of Cosmological Parameters from Type Ia Supernovae.”
29. Filippenko, A. V., Leonard, D. C., **Matheson, T.**, Li, W., Moran, E. C., & Riess, A. G. 1999, PASP, 111, 969. “A Black Hole in the X-Ray Nova Velorum 1993.”
28. Perlmutter, S., et al. (incl. **Matheson, T.**) 1999, ApJ, 517, 565. “Measurements of Omega and Lambda from 42 High-Redshift Supernovae.” [See also Perlmutter, S., et al. 1998, in 19th Texas Symposium on Relativistic Astrophysics and Cosmology, eds. J. Paul, T. Montmerle, and E. Aubourg (CEA: Saclay), p. 146.]
27. Fesen, R. A., Gerardy, C. L., Filippenko, A. V., **Matheson, T.**, Chevalier, R. A., Kirshner, R. P., Schmidt, B. P., Challis, P., Fransson, C., Leibundgut, B., & van Dyk, S. D. 1999, AJ, 117, 725. “Late-Time Optical and Ultraviolet Spectra of SN 1979C and SN 1980K.”
26. Peterson, B. M., et al. (incl. **Matheson, T.**) 1999, ApJ, 510, 659. “Steps Toward Determination of the Size and Structure of the Broad-Line Region in Active Galactic Nuclei. XV. Long-Term Optical Monitoring of NGC 5548.”
25. Perlmutter, S., et al. (incl. **Matheson, T.**) 1997, ApJ, 483, 565. “Measurements of the Cosmological Parameters Omega and Lambda from the First Seven Supernovae at $z \geq 0.35$.”
24. Filippenko, A. V., **Matheson, T.**, Leonard, D. C., Barth, A. J., & van Dyk, S. D. 1997, PASP, 109, 461. “A Black Hole in the X-Ray Nova Ophiuchi 1997.”
23. Kim, A. G., et al. (incl. **Matheson, T.**) 1997, ApJ, 476, L63. “Implications for the Hubble Constant from the First Seven Supernovae at $z \geq 0.35$.”
22. Goldhaber, G., et al. (incl. **Matheson, T.**) 1996, Nuclear Physics B (Proc. Suppl.), 51, 123. “Cosmological Time Dilation Using Type Ia Supernovae as Clocks.”
21. Perlmutter, S., et al. (incl. **Matheson, T.**) 1996, Nuclear Physics B (Proc. Suppl.), 51, 20. “High-Redshift Supernova Discoveries on Demand: First Results from a New Tool for Cosmology and Bounds on q_0 .”
20. Carone, T. E., et al. (incl. **Matheson, T.**) 1996, ApJ, 471, 737. “Optical Continuum and Emission-Line Variability of the Seyfert 1 Galaxy Markarian 509.”
19. Edelson, R. A., et al. (incl. **Matheson, T.**) 1996, ApJ, 470, 364. “Multiwavelength Observations of Short-Timescale Variability in NGC 4151. IV. Analysis of Multiwavelength Continuum Variability.”
18. Kaspi, S., et al. (incl. **Matheson, T.**) 1996, ApJ, 470, 336. “Multiwavelength Observations of Short-Timescale Variability in NGC 4151. II. Optical Observations.”

17. Filippenko, A. V., **Matheson, T.**, & Barth, A. J. 1995, ApJ, 455, L139. “A Black Hole in the X-Ray Nova GS 2000+25.”
16. Filippenko, A. V., **Matheson, T.**, & Ho, L. C. 1995, ApJ, 455, 614. “The Mass of the Probable Black Hole in the X-Ray Nova GRO J0422+32.”
15. Filippenko, A. V., Barth, A. J., **Matheson, T.**, Armus, L., Brown, M., Espey, B. R., Fan, X., Goodrich, R. W., Ho, L. C., Junkkarinen, V. T., Koo, D. C., Lehnert, M. D., Martel, A. R., Mazzarella, J. M., Miller, J. S., Smith, G. H., Tytler, D., & Wirth, G. D. 1995, ApJ, 450, L11. “The Type Ic Supernova 1994I in M51: Detection of Helium and Spectral Evolution.”
14. Clocchiatti, A., Wheeler, J. C., Barker, E. S., Filippenko, A. V., **Matheson, T.**, & Liebert, J. W. 1995, ApJ, 446, 167. “Spectrophotometric Study of SN 1993J at First Maximum Light.”
13. Korista, K. T., et al. (incl. **Matheson, T.**) 1995, ApJ Supplement Series, 97, 285. “Steps Toward Determination of the Size and Structure of the Broad-Line Region in Active Galactic Nuclei. 8: An Intensive *HST*, *IUE*, and Ground-Based Study of NGC 5548.”
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