

## KAIT PUBLICATIONS (\* = refereed journals)

*The following papers are based at least in part on KAIT results.*

- \*1) A. G. Riess, A. V. Filippenko, W. Li, R. R. Treffers, B. P. Schmidt, Y. Qiu, J. Hu, M. Armstrong, C. Faranda, and E. Thouvenot (1999). *Astron. Jour.*, **118**, 2675–2688. “The Risetime of Nearby Type Ia Supernovae.”
- \*2) E. C. Moran, A. V. Filippenko, L. C. Ho, J. C. Shields, T. Belloni, A. Comastri, S. L. Snowden, and R. A. Sramek (1999). *Publ. Astron. Soc. Pacific*, **111**, 801–808. “The Nuclear Spectral Energy Distribution of NGC 4395, the Least Luminous Type 1 Seyfert Galaxy.”
- \*3) T. Matheson, A. V. Filippenko, R. Chornock, D. C. Leonard, and W. Li (2000). *Astron. Jour.*, **119**, 2303–2310. “Helium Emission Lines in the Type Ic Supernova 1999cq.”
- \*4) S. D. Van Dyk, C. Y. Peng, J. Y. King, A. V. Filippenko, R. R. Treffers, W. Li, and M. W. Richmond (2000). *Publ. Astron. Soc. Pacific*, **112**, 1532–1541. “SN 1997bs in M66: Another Extragalactic Eta Carinae Analog?”
- 5) W. D. Li, A. V. Filippenko, A. G. Riess, R. R. Treffers, J. Y. Hu, and Y. L. Qiu (2000). In *Cosmic Explosions*, ed. S. S. Holt and W. W. Zhang (New York: American Institute of Physics), 91–94. “A High Peculiarity Rate for Type Ia SNe.”
- 6) W. D. Li, A. V. Filippenko, R. R. Treffers, A. Friedman, E. Halderson, R. A. Johnson, J. Y. King, M. Modjaz, M. Papenkova, Y. Sato, and T. Shefler (2000). In *Cosmic Explosions*, ed. S. S. Holt and W. W. Zhang (New York: American Institute of Physics), 103–106. “The Lick Observatory Supernova Search.”
- 7) A. V. Filippenko (2000). In *Amateur-Professional Partnerships in Astronomy*, ed. J. R. Percy and J. B. Wilson (San Francisco: Astron. Soc. Pacific, Conf. Ser., Volume 220), 185–187. “Discovery and Optical Monitoring of Nearby Supernovae.”
- \*8) W. Li, A. V. Filippenko, and A. G. Riess (2001). *Astrophys. Jour.*, **546**, 719–733. “Monte Carlo Simulations of Type Ia Supernova Observations in Supernova Surveys.”
- \*9) W. Li, A. V. Filippenko, R. R. Treffers, A. G. Riess, J. Hu, and Y. Qiu (2001). *Astrophys. Jour.*, **546**, 734–743. “A High Intrinsic Peculiarity Rate Among Type Ia Supernovae.”
- \*10) T. Matheson, A. V. Filippenko, W. Li, D. C. Leonard, and J. C. Shields (2001). *Astron. Jour.*, **121**, 1648–1675. “Optical Spectroscopy of Type Ib/Ic Supernovae.”
- \*11) M. Modjaz, W. Li, A. V. Filippenko, J. Y. King, D. C. Leonard, T. Matheson, R. R. Treffers, and A. G. Riess (2001). *Publ. Astron. Soc. Pacific*, **113**, 308–325. “The Subluminous Type Ia Supernova 1998de in NGC 252.”
- \*12) D. C. Leonard and A. V. Filippenko (2001). *Publ. Astron. Soc. Pacific*, **113**, 920–936. “Spectropolarimetry of the Type II Supernovae 1997ds, 1998A, and 1999gi.”
- 13) A. V. Filippenko, W. D. Li, R. R. Treffers, and M. Modjaz (2001). In *Small-Telescope Astronomy on Global Scales*, ed. W. P. Chen, C. Lemme, and B. Paczynski (San Francisco: Astron. Soc. Pacific, Conf. Ser. Vol. 246), 121–130. “The Lick Observatory Supernova Search with the Katzman Automatic Imaging Telescope.”
- \*14) W. Li, A. V. Filippenko, E. Gates, R. Chornock, A. Gal-Yam, E. O. Ofek, D. C. Leonard, M. Modjaz, R. M. Rich, A. G. Riess, and R. R. Treffers (2001). *Publ. Astron. Soc. Pacific*, **113**, 1178–1204. “The Unique Type Ia Supernova 2000cx in NGC 524.”
- \*15) W. C. G. Ho, S. D. Van Dyk, C. Y. Peng, A. V. Filippenko, D. C. Leonard, T. Matheson, R. R. Treffers, and M. W. Richmond (2001). *Publ. Astron. Soc. Pacific*, **113**, 1349–1364. “*BVRI* Photometry of Supernovae.”

- \*16) O. Shemmer, et al. [39 authors] (2001). *Astrophys. Jour.*, **561**, 162–170. “Multi-wavelength Monitoring of the Narrow-Line Seyfert 1 Galaxy Akn 564. III. Optical Observations and the Optical–UV–X-ray Connection.”
- \*17) R. Kurtev, L. Georgiev, J. Borissova, W. D. Li, A. V. Filippenko, and R. R. Treffers (2001). *Astron. Astrophys.*, **378**, 449–454. “The First Known Mira-type Variable Star in IC 1613.”
- \*18) D. C. Leonard, A. V. Filippenko, E. L. Gates, W. Li, R. G. Eastman, A. J. Barth, S. J. Bus, R. Chornock, A. L. Coil, S. Frink, C. A. Grady, A. W. Harris, M. A. Malkan, T. Matheson, A. Quirrenbach, and R. R. Treffers (2002). *Publ. Astron. Soc. Pacific*, **114**, 35–64. “The Distance to SN 1999em in NGC 1637 from the Expanding Photosphere Method.” [*Erratum*: **114**, 1291 (2002).]
- \*19) W. Li, A. V. Filippenko, S. D. Van Dyk, J. Hu, Y. Qiu, M. Modjaz, and D. C. Leonard (2002). *Publ. Astron. Soc. Pacific*, **114**, 403–415. “A *Hubble Space Telescope* Snapshot Survey of Nearby Supernovae.”
- \*20) S. van den Bergh, W. Li, and A. V. Filippenko (2002). *Publ. Astron. Soc. Pacific*, **114**, 820–825. “Classifications of the Host Galaxies of Supernovae.”
- \*21) D. C. Leonard, A. V. Filippenko, W. Li, T. Matheson, R. P. Kirshner, R. Chornock, S. D. Van Dyk, P. Berlind, M. L. Calkins, P. M. Challis, P. M. Garnavich, S. Jha, and A. Mahdavi (2002). *Astron. Jour.*, **124**, 2490–2505. “A Study of the Type II-Plateau Supernova 1999gi, and the Distance to its Host Galaxy, NGC 3184.”
- \*22) D. C. Leonard, A. V. Filippenko, R. Chornock, and W. Li (2002). *Astron. Jour.*, **124**, 2506–2515. “Evidence for Extremely High Dust Polarization Efficiency in NGC 3184.”
- \*23) S. D. Van Dyk, W. Li, and A. V. Filippenko (2003). *Publ. Astron. Soc. Pacific*, **115**, 1–20. “A Search for Core-Collapse Supernova Progenitors in Hubble Space Telescope Images.” [Addendum: p. 21.]
- 24) S. D. Van Dyk, W. Li, and A. V. Filippenko (2003). In *From Twilight to Highlight: The Physics of Supernovae*, ed. W. Hillebrandt and B. Leibundgut (Berlin: Springer-Verlag), 33–36. “Core-Collapse Supernova Progenitors in Hubble Space Telescope Images.”
- 25) A. V. Filippenko (2003). In *From Twilight to Highlight: The Physics of Supernovae*, ed. W. Hillebrandt and B. Leibundgut (Berlin: Springer-Verlag), 171–182. “Optical Spectra and Light Curves of Supernovae.”
- \*26) W. Li, A. V. Filippenko, R. Chornock, and S. Jha (2003). *Astrophys. Jour. (Letters)*, **586**, L9–L12. “The Early Light Curve of the Optical Afterglow of GRB 021211.”
- \*27) W. Li, A. V. Filippenko, R. Chornock, E. Berger, P. Berlind, M. L. Calkins, P. Challis, C. Fassnacht, S. Jha, R. P. Kirshner, T. Matheson, W. L. W. Sargent, R. A. Simcoe, G. H. Smith, and G. Squires (2003). *Publ. Astron. Soc. Pacific*, **115**, 453–473. “SN 2002cx: The Most Peculiar Known Type Ia Supernova.”
- \*28) W. Li, A. V. Filippenko, R. Chornock, and S. Jha (2003). *Publ. Astron. Soc. Pacific*, **115**, 844–853. “The Katzman Automatic Imaging Telescope Gamma-Ray Burst Alert System, and Observations of GRB 020813.”
- \*29) R. J. Foley, M. S. Papenkova, B. J. Swift, A. V. Filippenko, W. Li, P. A. Mazzali, R. Chornock, D. C. Leonard, and S. D. Van Dyk (2003). *Publ. Astron. Soc. Pacific*, **115**, 1220–1235. “Optical Photometry and Spectroscopy of the SN 1998bw-like Type Ic Supernova 2002ap.”
- \*30) S. van den Bergh, W. Li, and A. V. Filippenko (2003). *Publ. Astron. Soc. Pacific*, **115**, 1280–1288. “Classifications of the Host Galaxies of Supernovae, Set II.”

- \*31) S. D. Van Dyk, W. Li, and A. V. Filippenko (2003). *Publ. Astron. Soc. Pacific*, **115**, 1289–1295. “On the Progenitor of the Type II-Plateau Supernova 2003gd in M74.”
- \*32) T. Matheson, et al. (2003). *Astrophys. Jour.*, **599**, 394–407. “Photometry and Spectroscopy of GRB 030329 and Its Associated Supernova 2003dh: The First Two Months.”
- \*33) R. M. Wagner, F. J. Vrba, A. A. Henden, B. Canzian, C. B. Luginbuhl, A. V. Filippenko, R. Chornock, W. Li, G. D. Schmidt, P. S. Smith, and S. Starrfield (2004). *Publ. Astron. Soc. Pacific*, **116**, 326–336. “Discovery and Evolution of an Unusual Luminous Variable Star in NGC 3432 (Supernova 2000ch).”
- 34) A. V. Filippenko (2004). In *The Early Universe and Observational Cosmology (Lecture Notes in Physics, 646)*, ed. N. Bretón, J. L. Cervantes-Cota, and M. Salgado (Berlin: Springer-Verlag), 191–221. “The Accelerating Universe and Dark Energy: Evidence from Type Ia Supernovae.”
- 35) A. V. Filippenko (2004). In *Carnegie Observatories Astrophysics Series, Vol. 2: Measuring and Modeling the Universe*, ed. W. L. Freedman (Cambridge: Cambridge Univ. Press), 270–290. “Evidence from Type Ia Supernovae for an Accelerating Universe and Dark Energy.”
- \*36) W. Li, S. D. Van Dyk, A. V. Filippenko, and J.-C. Cuillandre (2005). *Publ. Astron. Soc. Pacific*, **117**, 121–131. “On the Progenitor of the Type II Supernova 2004et in NGC 6946”
- 37) A. V. Filippenko (2005). In *The Fate of the Most Massive Stars*, ed. R. Humphreys and K. Stanek (San Francisco: Astron. Soc. Pacific), 33–43. “Supernovae and Their Massive Star Progenitors.”
- \*38) K. Y. Huang, et al. (2005). *Astrophys. Jour. (Letters)*, **628**, L93–L96. “Optical Afterglow Observations of the Unusual Short-Duration Gamma-Ray Burst 040924.”
- \*39) S. van den Bergh, W. Li, and A. V. Filippenko (2005). *Publ. Astron. Soc. Pacific*, **117**, 773–782. “Classifications of the Host Galaxies of Supernovae, Set III.”
- \*40) C. M. Hamilton, et al. (2005). *Astron. Jour.*, **130**, 1896–1915. “The Disappearing Act of KH 15D: Photometric Results from 1995 to 2004.”
- \*41) D. C. Leonard, W. Li, A. V. Filippenko, R. J. Foley, and R. Chornock (2005). *Astrophys. Jour.*, **632**, 450–475. “Evidence for Spectropolarimetric Diversity in Type Ia Supernovae.”
- 42) A. V. Filippenko (2005). In “White Dwarfs: Cosmological and Galactic Probes,” ed. E. M. Sion, S. Vennes, and H. L. Shipman (Dordrecht: Springer), 97–133. “Type Ia Supernovae and Cosmology.”
- \*43) J. L. Sokoloski, et al. (2006). *Astrophys. Jour.*, **636**, 1002–1019. “A ‘Combination Nova’ Outburst in Z Andromedae: Nuclear Shell Burning Triggered by a Disk Instability.”
- \*44) M. Hamuy, et al. (2006). *Publ. Astron. Soc. Pacific.*, **118**, 2–20. “The Carnegie Supernova Project: The Low-Redshift Survey.”
- \*45) W. Li, S. Jha, A. V. Filippenko, J. S. Bloom, D. Pooley, R. J. Foley, and D. A. Perley (2006). *Publ. Astron. Soc. Pacific*, **118**, 37–61 “The Calibration of the *Swift* UVOT Optical Observations: A Recipe for Photometry.”
- \*46) A. Gal-Yam, E. O. Ofek, D. Poznanski, A. Levinson, E. Waxman, D. A. Frail, A. M. Soderberg, E. Nakar, W. Li, and A. V. Filippenko (2006). *Astrophys. Jour.*, **639**, 331–339. “Radio and Optical Follow-up Observations of a Uniform Radio Transient Search: Implications for Gamma-Ray Bursts and Supernovae”

- \*47) D. C. Leonard, A. V. Filippenko, M. Ganeshalingam, F. J. D. Serduke, W. Li, B. J. Swift, A. Gal-Yam, R. J. Foley, D. B. Fox, S. Park, J. L. Hoffman, and D. S. Wong (2006). *Nature*, **440**, 505–507. “A Non-Spherical Core in the Explosion of Supernova SN 2004dj.”
- \*48) S. D. Van Dyk, W. Li, and A. V. Filippenko (2006). *Pub. Astron. Soc. Pacific*, **118**, 351–357. “The Light Echo around Supernova 2003gd in Messier 74.”
- \*49) G. Folatelli, *et al.* (2006). *Astrophys. Jour.*, **641**, 1039–1050. “SN 2005bf: A Possible Transition Event between Type Ib/c Supernovae and Gamma-Ray Bursts.”
- \*50) W. Li, S. D. Van Dyk, A. V. Filippenko, J.-C. Cuillandre, S. Jha, J. S. Bloom, A. G. Riess, and M. Livio (2006). *Astrophys. Jour.*, **641**, 1060–1070. “Identification of the Red Supergiant Progenitor of Supernova 2005cs: Do the Progenitors of Type II-P Supernovae Have Low Mass?”
- \*51) M. Pozzo, W. P. S. Meikle, J. T. Rayner, R. D. Joseph, A. V. Filippenko, R. J. Foley, W. Li, S. Mattila, and J. Sollerman (2006). *Mon. Notices of the Royal Astron. Soc.*, **368**, 1169–1195 [Erratum: **375**, 416–416 (2007)]. “Optical and Infrared Observations of the Type IIP SN 2002hh from Days 3 to 397.”
- \*52) P. Ferrero, *et al.* [18 authors] (2006). *Astron. Astrophys.*, **457**, 857–864. “The GRB 060218/SN 2006aj Event in the Context of Other Gamma-Ray Burst Supernovae.”
- \*53) L.-B. Desroches, *et al.* [14 authors] (2006). *Astrophys. Jour.*, **650**, 88–101. “Multiwavelength Monitoring of the Dwarf Seyfert 1 Galaxy NGC 4395. III. Optical Variability and X-Ray/UV/Optical Correlations.”
- \*54) N. R. Butler, W. Li, D. Perley, K. Y. Huang, Y. Urata, J. X. Prochaska, J. S. Bloom, A. V. Filippenko, R. J. Foley, D. Kocevski, H.-W. Chen, Y. Qiu, P. H. Kuo, F. Y. Huang, W. H. Ip, T. Tamagawa, K. Onda, M. Tashiro, K. Makishima, S. Nishihara, and Y. Sarugaku (2006). *Astrophys. Jour.*, **652**, 1390–1399. “When Do Internal Shocks End and External Shocks Begin? Early-Time Broadband Modeling of GRB 051111.”
- \*55) A. Gal-Yam, D. C. Leonard, D. B. Fox, S. B. Cenko, A. M. Soderberg, D.-S. Moon, D. J. Sand, W. Li, A. V. Filippenko, G. Aldering, and Y. Copin (2007). *Astrophys. Jour.*, **656**, 372–381. “On the Progenitor of SN 2005gl and the Nature of Type II<sub>n</sub> Supernovae.”
- \*56) R. J. Foley, N. Smith, M. Ganeshalingam, W. Li, R. Chornock, and A. V. Filippenko (2007). *Astrophys. Jour. (Letters)*, **657**, L105–L108. “SN 2006jc: A Wolf-Rayet Star Exploding in a Dense He-Rich Circumstellar Medium.”
- \*57) M. M. Phillips, *et al.* (2007). *Publ. Astron. Soc. Pacific*, **119**, 360–387. “The Peculiar SN 2005hk: Do Some Type Ia Supernovae Explode as Deflagrations?”
- \*58) S. R. Kulkarni, *et al.* [14 authors] (2007). *Nature*, **447**, 458–460. “An Unusually Brilliant Transient in the Galaxy M85.”
- \*59) A. Pastorello, *et al.* [34 authors] (2007). *Mon. Notices of the Royal Astron. Soc.*, **377**, 1531–1552. “ESC and KAIT Observations of the Transitional Type Ia SN 2004eo.”
- \*60) W. Li, X. Wang, S. D. Van Dyk, J.-C. Cuillandre, R. J. Foley, and A. V. Filippenko (2007). *Astrophys. Jour.*, **661**, 1013–1024. “On the Progenitors of Two Type II-P Supernovae in the Virgo Cluster.”
- \*61) N. Smith, *et al.* (2007). *Astrophys. Jour.*, **666**, 1116–1128. “SN 2006gy: Discovery of the Most Luminous Supernova Ever Recorded, Powered by the Death of an Extremely Massive Star Like Eta Carinae.”
- \*62) J. D. Simon, *et al.* (2007). *Astrophys. Jour. Lett.*, **671**, L25–L28. “Constraints on Circumstellar Material around the Type Ia Supernova 2007af.”

- 63) A. V. Filippenko (2008). In “State of the Universe 2008,” ed. M. Ratcliffe (Praxis Publishing Ltd, UK), 170–182 “Chasing a Runaway Universe... Dark Energy and the Accelerating Universe.”
- \*64) D. A. Perley, *et al.* (2008). *Astrophysical Jour.*, **672**, 449–464. “The Troublesome Broadband Evolution of GRB 061126: Does a Grey Burst Imply Grey Dust?”
- \*65) S. Valenti, *et al.* (2008). *Mon. Not. Royal Astron. Soc.*, **383**, 1485–1500. “The Broad-Lined Type Ic Supernova 2003jd.”
- \*66) X. Wang, *et al.* (2008). *Astrophys. Jour.*, in press (astro-ph/0708.0140). “Optical and Near-Infrared Observations of the Highly Reddened, Rapidly Expanding Type Ia Supernova 2006X in M100.”
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In addition, there have been many hundreds of *International Astronomical Union Circulars* reporting the KAIT discovery and follow-up observations of supernovae, dozens of *GCN Circulars* reporting KAIT imaging of gamma-ray burst optical afterglows, and numerous conference Abstracts on KAIT results.