

CV of Eric Y. Hsiao, Assistant Professor, Florida State University (FSU)

Professional preparation

University of Toronto	Toronto, Canada	Electrical Engineering	B.A.S. 2002
University of Victoria	Victoria, Canada	Physics and Astronomy	B.S. 2004
University of Victoria	Victoria, Canada	Physics and Astronomy	Ph.D. 2009

Appointments

2015—present	Assistant Professor, FSU, Tallahassee, USA
2014—2015	Postdoctoral Researcher, Aarhus University, Aarhus, Denmark
2011—2014	Postdoctoral Researcher, Carnegie Observatories, La Serena, Chile
2009—2011	Postdoctoral Scholar, Lawrence Berkeley National Laboratory, Berkeley, USA

Awards

- PAI Award for Excellence in Teaching and Research, FSU (2018)
- Postgraduate Scholarship, National Sciences and Engineering Research Council of Canada (2007)
- President's Research Scholarship, University of Victoria (2007)
- R. M. Petrie Memorial Fellowship, University of Victoria (2007)
- University of Victoria Fellowship, University of Victoria (2006)
- Howard Petch Research Scholarship, University of Victoria (2005)
- Postgraduate Scholarship, National Sciences and Engineering Research Council of Canada (2004)
- President's Research Scholarship, University of Victoria (2004)
- President's Scholarship, University of Victoria (2003)

Grants funded

- Understanding the origins of cosmological distance indicators Type Ia supernovae. 2020-2021 as PI. \$24,995 funded by the Florida Space Grant Consortium.
- Determining the origins of Type Ia supernovae through early observations. 2019-2020 as PI. \$13,000 funded by FSU.
- President's Diversity and Inclusion Program. 2019-2020 as PI. \$3,840 funded by FSU.
- Signatures of Type Ia Supernovae Explosions and their Cosmological Implications. 2017-2020 as co-I. \$421,215 funded by NSF.
- Collaborative Research: The Carnegie Supernovae Project - Pushing the Precision of Type Ia Supernovae as Cosmological Standard Candles. 2016-2019 as PI. \$329,794 funded by NSF.
- Improving the precision of Type Ia supernovae for WFIRST. 2016-2018 as PI. \$24,176 funded by the Florida Space Grant Consortium.
- Probing Type Ia Supernova Physics with Near-Infrared Spectroscopy. 2016 as PI. \$10,000 funded by FSU.
- Investigating the Nature of Dark Energy Using Type Ia Supernovae with WFIRST-AFTA Space Mission. 2016-2020 as co-I. \$1,500,000 funded by NASA.
- Improving Standard Candles by Investigating the Ultraviolet Variability of Type Ia Supernovae. 2013-2014 as co-I. \$37,000 funded by NASA.

Synergistic activities

- Author of 140 refereed journal articles (2 additional articles in press). My publications have more than 12,500 citations and an h-index of 53. ([Retrieved from Google Scholar on September 2020.](#))
- Investigator on an average of 9 independent observing proposals per year.
- Contributor to several past and ongoing supernova observing collaborations, including the Carnegie Supernova Project (CSP), Global Supernova Project (GSP), Supernova Cosmology Project (SCP),

Nearby Supernova Factory (SNfactory), Palomar Transient Factory (PTF), Supernova Legacy Survey (SNLS), and the future supernova dark energy experiment planned for the Roman Space Telescope.

- Developer of the Hsiao Type Ia supernova spectrophotometric template, which is widely adopted by the community for a variety of applications.
- Director of the FSU Observatory, which was completed in 2019 and houses a 17-inch primary telescope and a modern CCD detector, with the aim to enhance astronomy education at FSU.
- Founder of the We Are All Star Stuff Astronomy Program (WAASSAP), with the aim to improve the FSU recruitment of students from historically underrepresented groups.
- Chair of the Department of Physics Open House, which showcases the research of students and faculty, staging live demonstrations, planetarium shows, and laboratory tours for the community.

Current projects of the Hsiao research group

- NIR spectra of stripped-envelope core-collapse supernovae (Ph.D. student Shahbandeh)
- SN2013ai: a link between hydrogen-rich and hydrogen-poor core-collapse supernovae (Ph.D. student Davis)
- First overtone CO detections in the NIR spectra of Type II supernovae (Ph.D. student Davis)
- The search for companion interaction signature in the NIR spectra of Type Ia supernova SN 2018aoz (Undergraduate student Burns)
- CSP sample of super-Chandrasekhar Type Ia supernovae (Postdoc Ashall)
- ASASSN-15hy: a peculiar super-Chandrasekhar Type Ia supernova (Ph.D. student Lu)
- NIR K-corrections and spectral template of Type Ia supernova (Ph.D. student Lu)
- Measurement of explosion symmetry using the nebular-phase spectra of Type Ia supernovae SNe 2013aa and 2017cbv (Ph.D. student Kumar)
- Morphology of Type Ia supernova i-band light curves (External Ph.D. student Pessi)

Selected publications by the Hsiao research group

- Hsiao, Hoeflich, Ashall et al. (2020), “Carnegie Supernova Project II: The slowest rising Type Ia supernova LSQ14fmg and clues to the origin of super-Chandrasekhar/03fg-like events”, *ApJ*, 900, 140.
- Ashall, Lu, Burns, Hsiao et al. (2020), “Carnegie Supernova Project-II: A New Method to Photometrically Identify Sub-types of Extreme Type Ia Supernovae”, *ApJL*, 895, L3.
- Davis, Hsiao, Ashall et al. (2019), “Carnegie Supernova Project-II: Near-infrared Spectroscopic Diversity of Type II Supernovae”, *ApJ*, 887, 4.
- Ashall, Hoeflich, Hsiao et al. (2019), “A Physical Basis for the H-band Blue-edge Velocity and Light-curve Shape Correlation in Context of Type Ia Supernova Explosion Physics”, *ApJ*, 878, 86.
- Ashall, Hsiao, Hoeflich et al. (2019), “Carnegie Supernova Project-II: Using Near-infrared Spectroscopy to Determine the Location of the Outer 56Ni in Type Ia Supernovae”, *ApJL*, 875, L14.
- Hsiao, Phillips, Marion et al. (2019), “Carnegie Supernova Project-II: The Near-infrared Spectroscopy Program”, *PASP*, 131, 014002.
- Phillips, Contreras, Hsiao et al. (2019), “Carnegie Supernova Project-II: Extending the Near-infrared Hubble Diagram for Type Ia Supernovae to $z \sim 0.1$ ”, *PASP*, 131, 014001.
- Hoeflich, Hsiao, Ashall et al. (2017), “Light and Color Curve Properties of Type Ia Supernovae: Theory Versus Observations”, *ApJ*, 846, 58.

Full list of refereed publications

1. Hsiao, E. Y., Hoeflich, P., Ashall, C., Lu, J., Contreras, C., Burns, C. R., Phillips, M. M., Galbany, L., Anderson, J. P., Baltay, C., Baron, E., Castellon, S., Davis, S., Freedman, W. L., Gall, C., Gonzalez, C., Graham, M. L., Hamuy, M., Holoien, T. W.-S., Karamahmetoglu, E., Krisciunas, K., Kumar, S., Kuncarayakti, H., Morrell, N., Moriya, T. J., Nugent, P. E., Perlmutter, S., Persson, S. E., Piro, A. L., Rabinowitz, D., Roth, M., Shahbandeh, M., Shappee, B. J., Stritzinger, M. D., Suntzeff, N. B., Taddia, F., & Uddin, S. A. (2020), "Carnegie Supernova Project II: The slowest rising Type Ia supernova LSQ14fmg and clues to the origin of super-Chandrasekhar/03fg-like events", *The Astrophysical*

- Journal, 900, 140.
2. Uddin, S. A., Burns, C. R., Phillips, M. M., Suntzeff, N. B., Contreras, C., Hsiao, E. Y., Morrell, N., Galbany, L., Stritzinger, M., Hoeflich, P., Ashall, C., Piro, A. L., Freedman, W. L., Persson, S. E., Krisciunas, K., & Brown, P. (2020), "The Carnegie Supernova Project-I: Correlation Between Type Ia Supernovae and Their Host Galaxies from Optical to Near-Infrared Bands", *The Astrophysical Journal* in press, arXiv:2006.15164.
 3. Burrow, A., Baron, E., Ashall, C., Burns, C. R., Morrell, N., Stritzinger, M. D., Brown, P. J., Folatelli, G., Freedman, W. L., Galbany, L., Hoeflich, P., Hsiao, E. Y., Krisciunas, K., Phillips, M. M., Piro, A. L., Suntzeff, N. B., & Uddin, S. (2020), "Carnegie Supernova Project: Classification of Type Ia Supernovae", *The Astrophysical Journal* in press, arXiv:2008.07636.
 4. Pellegrino, C., Howell, D. A., Sarbhadhary, S. K., Burke, J., Hiramatsu, D., McCully, C., Milne, P. A., Andrews, J. E., Brown, P., Chomiuk, L., Hsiao, E. Y., Sand, D. J., Shahbandeh, M., Smith, N., Valenti, S., Vinkó, J., Wheeler, J. C., Wyatt, S., & Yang, Y. (2020), "Constraining the Source of the High-velocity Ejecta in Type Ia SN 2019ein", *The Astrophysical Journal*, 897, 159.
 5. Stritzinger, M. D., Taddia, F., Fraser, M., Tauris, T. M., Contreras, C., Drybye, S., Galbany, L., Holmbo, S., Morrell, N., Pastorello, A., Phillips, M. M., Pignata, G., Tartaglia, L., Suntzeff, N. B., Anais, J., Ashall, C., Baron, E., Burns, C. R., Hoeflich, P., Hsiao, E. Y., Karamahmetoglu, E., Moriya, T. J., Bock, G., Campillay, A., Castellón, S., Inserra, C., González, C., Marples, P., Parker, S., Reichart, D., Torres-Robledo, S., & Young, D. R. (2020), "The Carnegie Supernova Project II. Observations of the luminous red nova AT 2014ej", *Astronomy and Astrophysics*, 639, A104.
 6. Stritzinger, M. D., Taddia, F., Fraser, M., Tauris, T. M., Suntzeff, N. B., Contreras, C., Drybye, S., Galbany, L., Holmbo, S., Morrell, N., Phillips, M. M., Prieto, J. L., Anais, J., Ashall, C., Baron, E., Burns, C. R., Hoeflich, P., Hsiao, E. Y., Karamahmetoglu, E., Moriya, T. J., Botticella, M. T., Campillay, A., Castellón, S., González, C., Pumo, M. L., & Torres-Robledo, S. (2020), "The Carnegie Supernova Project II. Observations of the intermediate-luminosity red transient SNhunt120", *Astronomy and Astrophysics*, 639, A103.
 7. Burns, C. R., Ashall, C., Contreras, C., Brown, P., Stritzinger, M., Phillips, M. M., Flores, R., Suntzeff, N. B., Hsiao, E. Y., Uddin, S., Simon, J. D., Krisciunas, K., Campillay, A., Foley, R. J., Freedman, W. L., Galbany, L., González, C., Hoeflich, P., Holmbo, S., Kilpatrick, C. D., Kirshner, R. P., Morrell, N., Muñoz-Elgueta, N., Piro, A. L., Rojas-Bravo, C., Sand, D., Vargas-González, J., Ulloa, N., & Vilchez, J. A. (2020), "SN 2013aa and SN 2017cbv: Two Sibling Type Ia Supernovae in the Spiral Galaxy NGC 5643", *Astrophysical Journal*, 895, 118
 8. Taddia, F., Stritzinger, M. D., Fransson, C., Brown, P. J., Contreras, C., Holmbo, S., Moriya, T. J., Phillips, M. M., Sollerman, J., Suntzeff, N. B., Ashall, C., Burns, C. R., Busta, L., Campillay, A., Castellón, S., Corco, C., Di Mille, F., Gall, C., González, C., Hsiao, E. Y., Morrell, N., Nyholm, A., Simon, J. D., & Serón, J. (2020), "The Carnegie Supernova Project II. The shock wave revealed through the fog: The strongly interacting Type II_n SN 2013L", *Astronomy and Astrophysics*, 638, A92.
 9. Ashall, C., Lu, J., Burns, C., Hsiao, E. Y., Stritzinger, M., Suntzeff, N. B., Phillips, M., Baron, E., Contreras, C., Davis, S., Galbany, L., Hoeflich, P., Holmbo, S., Morrell, N., Karamahmetoglu, E., Krisciunas, K., Kumar, S., Shahbandeh, M., & Uddin, S. (2020), "Carnegie Supernova Project-II: A New Method to Photometrically Identify Sub-types of Extreme Type Ia Supernovae", *The Astrophysical Journal*, 895, L3.
 10. Tucker, M. A., Shappee, B. J., Vallely, P. J., Stanek, K. Z., Prieto, J. L., Botyanszki, J., Kochanek, C. S., Anderson, J. P., Brown, J., Galbany, L., Holoien, T. W.-S., Hsiao, E. Y., Kumar, S., Kuncarayakti, H., Morrell, N., Phillips, M. M., Stritzinger, M. D., & Thompson, T. A. (2020), "Nebular spectra of 111 Type Ia supernovae disfavour single-degenerate progenitors", *Monthly Notices of the Royal Astronomical Society*, 493, 1044.
 11. Clark, P., Maguire, K., Inserra, C., Prentice, S., Smartt, S. J., Contreras, C., Hossenizadeh, G., Hsiao, E. Y., Kankare, E., Kasliwal, M., Nugent, P., Shahbandeh, M., Baltay, C., Rabinowitz, D., Arcavi, I., Ashall, C., Burns, C. R., Callis, E., Chen, T.-W., Diamond, T., Fraser, M., Howell, D. A., Karamahmetoglu, E., Kotak, R., Lyman, J., Morrell, N., Phillips, M., Pignata, G., Pursiainen, M., Sollerman, J., Stritzinger, M., Sullivan, M., & Young, D. (2020), "LSQ13ddu: a rapidly evolving stripped-envelope supernova with early circumstellar interaction signatures", *Monthly Notices of the*

- Royal Astronomical Society, 492, 2208.
12. Stritzinger, M. D., Taddia, F., Holmbo, S., Baron, E., Contreras, C., Karamehmetoglu, E., Phillips, M. M., Sollerman, J., Suntzeff, N. B., Vinko, J., Ashall, C., Avila, C., Burns, C. R., Campillay, A., Castellon, S., Folatelli, G., Galbany, L., Hoeflich, P., Hsiao, E. Y., Marion, G. H., Morrell, N., & Wheeler, J. C. (2020), "The Carnegie Supernova Project II. Early observations and progenitor constraints of the Type Ib supernova LSQ13abf", *Astronomy and Astrophysics*, 634, A21.
 13. Davis, S., Hsiao, E. Y., Ashall, C., Hoeflich, P., Phillips, M. M., Marion, G. H., Kirshner, R. P., Morrell, N., Sand, D. J., Burns, C., Contreras, C., Stritzinger, M., Anderson, J. P., Baron, E., Diamond, T., Gutiérrez, C. P., Hamuy, M., Holmbo, S., Kasliwal, M. M., Krisciunas, K., Kumar, S., Lu, J., Pessi, P. J., Piro, A. L., Prieto, J. L., Shahbandeh, M., & Suntzeff, N. B. (2019), "Carnegie Supernova Project-II: Near-infrared Spectroscopic Diversity of Type II Supernovae", *The Astrophysical Journal*, 887, 4.
 14. Andrews, J. E., Sand, D. J., Valenti, S., Smith, N., Dastidar, R., Sahu, D. K., Misra, K., Singh, A., Hiramatsu, D., Brown, P. J., Hosseinzadeh, G., Wyatt, S., Vinko, J., Anupama, G. C., Arcavi, I., Ashall, C., Benetti, S., Berton, M., Bostroem, K. A., Bulla, M., Burke, J., Chen, S., Chomiuk, L., Cikota, A., Congiu, E., Cseh, B., Davis, S., Elias-Rosa, N., Faran, T., Fraser, M., Galbany, L., Gall, C., Gal-Yam, A., Gangopadhyay, A., Gromadzki, M., Haislip, J., Howell, D. A., Hsiao, E. Y., Inserra, C., Kankare, E., Kuncarayakti, H., Kouprianov, V., Kumar, B., Li, X., Lin, H., Maguire, K., Mazzali, P., McCully, C., Milne, P., Mo, J., Morrell, N., Nicholl, M., Ochner, P., Olivares, F., Pastorello, A., Patat, F., Phillips, M., Pignata, G., Prentice, S., Reguitti, A., Reichart, D. E., Rodríguez, Ó., Rui, L., Sanwal, P., Sárneczky, K., Shahbandeh, M., Singh, M., Smartt, S., Strader, J., Stritzinger, M. D., Szakáts, R., Tartaglia, L., Wang, H., Wang, L., Wang, X., Wheeler, J. C., Xiang, D., Yaron, O., Young, D. R., & Zhang, J. (2019), "SN 2017gmr: An Energetic Type II-P Supernova with Asymmetries", *The Astrophysical Journal*, 885, 43.
 15. Galbany, L., Ashall, C., Höflich, P., González-Gaitán, S., Taubenberger, S., Stritzinger, M., Hsiao, E. Y., Mazzali, P., Baron, E., Blondin, S., Bose, S., Bulla, M., Burke, J. F., Burns, C. R., Cartier, R., Chen, P., Della Valle, M., Diamond, T. R., Gutiérrez, C. P., Harmanen, J., Hiramatsu, D., Holoien, T. W.-S., Hosseinzadeh, G., Howell, D. A., Huang, Y., Inserra, C., de Jaeger, T., Jha, S. W., Kangas, T., Kromer, M., Lyman, J. D., Maguire, K., Marion, G. H., Milisavljevic, D., Prentice, S. J., Razza, A., Reynolds, T. M., Sand, D. J., Shappee, B. J., Shekhar, R., Smartt, S. J., Stassun, K. G., Sullivan, M., Valenti, S., Villanueva, S., Wang, X., Wheeler, J. C., Zhai, Q., & Zhang, J. (2019), "Evidence for a Chandrasekhar-mass explosion in the Ca-strong 1991bg-like type Ia supernova 2016hnk", *Astronomy and Astrophysics*, 630, A76.
 16. Pessi, P. J., Folatelli, G., Anderson, J. P., Bersten, M., Burns, C., Contreras, C., Davis, S., Englert, B., Hamuy, M., Hsiao, E. Y., Martinez, L., Morrell, N., Phillips, M. M., Suntzeff, N., & Stritzinger, M. D. (2019), "Comparison of the optical light curves of hydrogen-rich and hydrogen-poor type II supernovae", *Monthly Notices of the Royal Astronomical Society*, 488, 4239.
 17. Pastorello, A., Reguitti, A., Morales-Garoffolo, A., Cano, Z., Prentice, S. J., Hiramatsu, D., Burke, J., Kankare, E., Kotak, R., Reynolds, T., Smartt, S. J., Bose, S., Chen, P., Congiu, E., Dong, S., Geier, S., Gromadzki, M., Hsiao, E. Y., Kumar, S., Ochner, P., Pignata, G., Tomasella, L., Wang, L., Arcavi, I., Ashall, C., Callis, E., de Ugarte Postigo, A., Fraser, M., Hosseinzadeh, G., Howell, D. A., Inserra, C., Kann, D. A., Mason, E., Mazzali, P. A., McCully, C., Rodríguez, Ó., Phillips, M. M., Smith, K. W., Tartaglia, L., Thöne, C. C., Wevers, T., Young, D. R., Pumo, M. L., Lowe, T. B., Magnier, E. A., Wainscoat, R. J., Waters, C., & Wright, D. E. (2019), "A luminous stellar outburst during a long-lasting eruptive phase first, and then SN IIn 2018cnf", *Astronomy and Astrophysics*, 628, A93.
 18. Holmbo, S., Stritzinger, M. D., Shappee, B. J., Tucker, M. A., Zheng, W., Ashall, C., Phillips, M. M., Contreras, C., Filippenko, A. V., Hoeflich, P., Huber, M., Piro, A. L., Wang, X. F., Zhang, J.-J., Anais, J., Baron, E., Burns, C. R., Campillay, A., Castellón, S., Corco, C., Hsiao, E. Y., Krisciunas, K., Morrell, N., Nielsen, M. T. B., Persson, S. E., Taddia, F., Tomasella, L., Zhang, T.-M., & Zhao, X.-L. (2019), "Discovery and progenitor constraints on the Type Ia supernova 2013gy", *Astronomy and Astrophysics*, 627, A174.
 19. Ashall, C., Hoeflich, P., Hsiao, E. Y., Phillips, M. M., Stritzinger, M., Baron, E., Piro, A. L., Burns, C., Contreras, C., Davis, S., Galbany, L., Holmbo, S., Kirshner, R. P., Krisciunas, K., Marion, G. H., Morrell, N., Sand, D. J., Shahbandeh, M., Suntzeff, N. B., & Taddia, F. (2019), "A Physical Basis for

- the H-band Blue-edge Velocity and Light-curve Shape Correlation in Context of Type Ia Supernova Explosion Physics", *The Astrophysical Journal*, 878, 86.
20. Brown, P. J., Hosseinzadeh, G., Jha, S. W., Sand, D., Vieira, E., Wang, X., Dai, M., Dettman, K. G., Mould, J., Uddin, S., Wang, L., Arcavi, I., Bento, J., Burns, C. R., Diamond, T., Hiramatsu, D., Howell, D. A., Hsiao, E. Y., Marion, G. H., McCully, C., Milne, P. A., Mirzaqulov, D., Ruitter, A. J., Valenti, S., & Xiang, D. (2019), "Red and Reddened: Ultraviolet through Near-infrared Observations of Type Ia Supernova 2017erp", *The Astrophysical Journal*, 877, 152.
 21. Szalai, T., Vinkó, J., Könyves-Tóth, R., Nagy, A. P., Bostroem, K. A., Sárneczky, K., Brown, P. J., Pejcha, O., Bódi, A., Cseh, B., Csörnyei, G., Dencs, Z., Hanyecz, O., Ignácz, B., Kalup, C., Kriskovics, L., Ordasi, A., Pál, A., Seli, B., Sódor, Á., Szakáts, R., Vida, K., Zsidi, G., Konkoly Team, Arcavi, I., Ashall, C., Burke, J., Galbany, L., Hiramatsu, D., Hosseinzadeh, G., Hsiao, E. Y., Howell, D. A., McCully, C., Moran, S., Rho, J., Sand, D. J., Shahbandeh, M., Valenti, S., Wang, X., Wheeler, J. C., & Supernova Project, G. (2019), "The Type II-P Supernova 2017eaw: From Explosion to the Nebular Phase", *The Astrophysical Journal*, 876, 19.
 22. Ashall, C., Hsiao, E. Y., Hoeflich, P., Stritzinger, M., Phillips, M. M., Morrell, N., Davis, S., Baron, E., Piro, A. L., Burns, C., Contreras, C., Galbany, L., Holmbo, S., Kirshner, R. P., Krisciunas, K., Marion, G. H., Sand, D. J., Shahbandeh, M., Suntzeff, N. B., & Taddia, F. (2019), "Carnegie Supernova Project-II: Using Near-infrared Spectroscopy to Determine the Location of the Outer 56Ni in Type Ia Supernovae", *The Astrophysical Journal*, 875, L14.
 23. Scalzo, R. A., Parent, E., Burns, C., Childress, M., Tucker, B. E., Brown, P. J., Contreras, C., Hsiao, E., Krisciunas, K., Morrell, N., Phillips, M. M., Piro, A. L., Stritzinger, M., & Suntzeff, N. (2019), "Probing type Ia supernova properties using bolometric light curves from the Carnegie Supernova Project and the CfA Supernova Group", *Monthly Notices of the Royal Astronomical Society*, 483, 628.
 24. Hsiao, E. Y., Phillips, M. M., Marion, G. H., Kirshner, R. P., Morrell, N., Sand, D. J., Burns, C. R., Contreras, C., Hoeflich, P., Stritzinger, M. D., Valenti, S., Anderson, J. P., Ashall, C., Baltay, C., Baron, E., Banerjee, D. P. K., Davis, S., Diamond, T. R., Folatelli, G., Freedman, W. L., Förster, F., Galbany, L., Gall, C., González-Gaitán, S., Goobar, A., Hamuy, M., Holmbo, S., Kasliwal, M. M., Krisciunas, K., Kumar, S., Lidman, C., Lu, J., Nugent, P. E., Perlmutter, S., Persson, S. E., Piro, A. L., Rabinowitz, D., Roth, M., Ryder, S. D., Schmidt, B. P., Shahbandeh, M., Suntzeff, N. B., Taddia, F., Uddin, S., & Wang, L. (2019), "Carnegie Supernova Project-II: The Near-infrared Spectroscopy Program", *Publications of the Astronomical Society of the Pacific*, 131, 014002.
 25. Phillips, M. M., Contreras, C., Hsiao, E. Y., Morrell, N., Burns, C. R., Stritzinger, M., Ashall, C., Freedman, W. L., Hoeflich, P., Persson, S. E., Piro, A. L., Suntzeff, N. B., Uddin, S. A., Anais, J., Baron, E., Busta, L., Campillay, A., Castellón, S., Corco, C., Diamond, T., Gall, C., Gonzalez, C., Holmbo, S., Krisciunas, K., Roth, M., Serón, J., Taddia, F., Torres, S., Anderson, J. P., Baltay, C., Folatelli, G., Galbany, L., Goobar, A., Hadjiyska, E., Hamuy, M., Kasliwal, M., Lidman, C., Nugent, P. E., Perlmutter, S., Rabinowitz, D., Ryder, S. D., Schmidt, B. P., Shappee, B. J., & Walker, E. S. (2019), "Carnegie Supernova Project-II: Extending the Near-infrared Hubble Diagram for Type Ia Supernovae to $z \sim 0.1$ ", *Publications of the Astronomical Society of the Pacific*, 131, 014001.
 26. Trakhtenbrot, B., Arcavi, I., Ricci, C., Tacchella, S., Stern, D., Netzer, H., Jonker, P. G., Horesh, A., Mejía-Restrepo, J. E., Hosseinzadeh, G., Hallefors, V., Howell, D. A., McCully, C., Baloković, M., Heida, M., Kamraj, N., Lansbury, G. B., Wyrzykowski, Ł., Gromadzki, M., Hamanowicz, A., Cenko, S. B., Sand, D. J., Hsiao, E. Y., Phillips, M. M., Diamond, T. R., Kara, E., Gendreau, K. C., Arzoumanian, Z., & Remillard, R. (2019), "A new class of flares from accreting supermassive black holes", *Nature Astronomy*, 3, 242.
 27. Cain, C., Baron, E., Phillips, M. M., Contreras, C., Ashall, C., Stritzinger, M. D., Burns, C. R., Piro, A. L., Hsiao, E. Y., Hoeflich, P., Krisciunas, K., & Suntzeff, N. B. (2018), "Investigating the Unusual Spectroscopic Time Evolution in SN 2012fr", *The Astrophysical Journal*, 869, 162.
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