



# Maximilian Stritzinger

*Curriculum Vitae*

## PERSONAL DATA

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*Birth* September 22, 1975, Howell, Mi., USA  
*Address* Department of Physics & Astronomy  
Aarhus University  
Ny Munkegade 120  
DK-8000 Aarhus C, Denmark  
*Phone* +45-24999120  
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*ORCID* <http://orcid.org/0000-0002-5571-1833>  
*Family* Wife, daughter, son: Katja, Annabell, Asbjørn, respectively

## EDUCATION

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**PhD in Physics, magna cum laude** November 2005  
*Technical University of Munich*  
Thesis title: "Type Ia Supernovae: Bolometric properties and new tools for photometric techniques"  
Promoter: Prof. Wolfgang Hillebrandt

**Research for PhD** 2002-2005  
*Max-Planck-Institute for Astrophysics, Garching, Germany*

**Master of Science, Physics** June 2002  
*University of Arizona, Tucson, Az., USA*

**Bachelor of Science, Double Major in Physics & Astronomy** June 2000  
*University of Arizona, Tucson, Az. USA*

## ACADEMIC EMPLOYMENT

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**Associate Professor (Tenured)** 2012-present  
*Aarhus University, Denmark*  
The Department of Physics and Astronomy

**Postdoctoral Scholar** 2010-2011  
*Stockholm University, Sweden*  
The Oskar Klein Centre, Department of Astronomy

**Postdoctoral Scholar** 2007-2010  
*Carnegie Institute for Science, USA & Chile*  
Carnegie Observatories, Las Campanas Observatory

**DARK Fellow** 2005-2007  
*University of Copenhagen, Denmark*  
Niels Bohr Institute, Dark Cosmology Centre

## ACADEMIC AWARDS

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- 2019 Villum Foundation Experiment: Cosmography of Laniakea, DKK 2,000,000
- 2018 Independent Research Fund DK: Project 1 grant to study core-collapse supernovae, DKK 2,941,567
- 2018 AU Faculty of Science: DKK 40,000 for workshop & DKK 191,000 sabbatical grant
- 2018 AU Research Foundation: sabbatical grant for Prof. Eddie Baron, Un. of Oklahoma, DKK 190,000
- 2017 AU Research Foundation: DKK 60,000 for workshop
- 2017 IDA (the Instrument Center for Danish Astronomy): 30,000 Euro to fund construction of components for the NTE (Nordic optical telescope Transient Explorer) instrument
- 2016 Villum Foundation: Project grant to study infant supernovae, 500,000 Euro
- 2015 Invitee to ERC Consolidator Grant Interview, fulfilled funding criteria with A rating, not funded
- 2013 IDA: 15,000 Euro grant funding various supernovae research projects
- 2012 Danish Research Council: Recipient of *Sapere Aude* Level II fellowship, 850,000 Euro
- 2012, 2016, 2017 IDA: Recipient of three  $\approx$ 5,000 Euro grants for various student-led research projects
- Recipient of the William F. Lucas/San Diego Astronomy Association Scholarship, 1998-2000

## MANAGEMENT EXPERIENCE

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- Aarhus Supernova Group Leader (2012-present)
- PI of Aarhus cosmic FLOWS project <https://flows.phys.au.dk/>
- co-PI of NOT Unbiased-Transient Survey (NUTS2) <https://nuts.sn.ie/>
- Junior group research leader. Four year (2013-2017) funded project supervised 4 postdocs
- Supervised a working group of three research assistants and three observers during the operation of the Carnegie Supernova Project, 2007–2009

## RESEARCH TOPICS

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Time-domain astronomy, transient phenomena, physics of supernovae (SN), near-field SN cosmology and the distance scale, photometric techniques and standard stars

## INTERNATIONAL COLLABORATIONS

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- FLOWS is a collaboration of astronomers led by the Aarhus SN group, Germany, Spain, USA, Chile
- NUTS2 collaboration consists of researchers located Denmark, Sweden, Finland, Ireland, Italy & China
- co-PI of Precision Observations of Infant Supernova Explosions (POISE), Denmark, USA, & Chile
- co-I of ASAS-SN <http://www.astronomy.ohio-state.edu/~assassin/index.shtml>, USA, Denmark, China
- co-I of Carnegie Supernova Project-II <http://csp2.lco.cl/>, Denmark, Chile, USA

## SUPERVISION

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- Currently supervising 3 postdocs: S. Holmbo, E. Karamehmetoglu, & F. Taddia
- 2012-2017 Supervised postdocs: Christa Gall, E. Hsiao, C. Contreras, & M. Nielsen
- 2020 Supervised PhD student and Fulbright scholar S. Holmbo
- Co-supervised PhD students F. Taddia (Stockholm) and G. Leloudas (Copenhagen)

## Peer-Reviewed Publications since 2011

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Listed below are 148 refereed papers that have been published over the past decade. According to the SAO/NASA Astrophysics Data System (ADS), as of February 22nd, 2020, I have 189 refereed publications of which 18 are first author and 6 are co-author Nature papers. According to ADS these publications have 10,300+ citations and my h-index is 57. According to google scholar my citation count is 13,151 and h-index is 65. I have also published 100s of Astronomical circulars and Astronomer's telegrams reporting on the discovery and spectral classifications of 100s of supernovae, as well as numerous conference proceedings. My publication record places me among the top productive scientists at my institute.

1. A. Pastorello, M. Fraser, G. Valerin, A. Reguitti, K. Itagaki, P. Ochner, S. C. Williams, D. Jones, J. Munday, S. J. Smartt, K. W. Smith, S. Srivastav, N. Elias-Rosa, E. Kankare, E. Karamehmetoglu, P. Lundqvist, P. A. Mazzali, U. Munari, M. D. Stritzinger, L. Tomasella, J. P. Anderson, K. C. Chambers, and A. Rest. Forbidden hugs in pandemic times. I. Luminous red nova AT 2019zhd, a new merger in M 31. *Astronomy & Astrophysics*, 646:A119, February 2021
2. Ori D. Fox, Claes Fransson, Nathan Smith, Jennifer Andrews, K. Azalee Bostroem, Thomas G. Brink, S. Bradley Cenko, Geoffrey C. Clayton, Alexei V. Filippenko, Wen-fai Fong, Joseph S. Gallagher, Patrick L. Kelly, Charles D. Kilpatrick, Jon C. Mauerhan, Adam M. Miller, Edward Montiel, Maximilian D. Stritzinger, Tamás Szalai, and Schuyler D. Van Dyk. The slow demise of the long-lived SN 2005ip. *Monthly Notices of the Royal Astronomical Society*, 498(1):517–531, October 2020
3. Anthony Burrow, E. Baron, Chris Ashall, Christopher R. Burns, N. Morrell, Maximilian D. Stritzinger, Peter J. Brown, G. Folatelli, Wendy L. Freedman, Lluís Galbany, P. Hoefflich, Eric Y. Hsiao, Kevin Krisciunas, M. M. Phillips, Anthony L. Piro, Nicholas B. Suntzeff, and Syed Uddin. Carnegie Supernova Project: Classification of Type Ia Supernovae. *The Astrophysical Journal*, 901(2):154, October 2020
4. Syed A. Uddin, Christopher R. Burns, M. M. Phillips, Nicholas B. Suntzeff, Carlos Contreras, Eric Y. Hsiao, Nidia Morrell, Lluís Galbany, Maximilian Stritzinger, Peter Hoefflich, Chris Ashall, Anthony L. Piro, Wendy L. Freedman, S. E. Persson, Kevin Krisciunas, and Peter Brown. The Carnegie Supernova Project-I: Correlation between Type Ia Supernovae and Their Host Galaxies from Optical to Near-infrared Bands. *The Astrophysical Journal*, 901(2):143, October 2020
5. T. J. Moriya, M. D. Stritzinger, F. Taddia, N. Morrell, N. B. Suntzeff, C. Contreras, C. Gall, J. Hjorth, C. Ashall, C. R. Burns, L. Busta, A. Campillay, S. Castellón, C. Corco, S. Davis, L. Galbany, C. González, S. Holmbo, E. Y. Hsiao, J. R. Maund, and M. M. Phillips. The Carnegie Supernova Project II. Observations of SN 2014ab possibly revealing a 2010jl-like SN II<sub>n</sub> with pre-existing dust. *Astronomy & Astrophysics*, 641:A148, September 2020
6. Lina Tomasella, Maximilian Stritzinger, Stefano Benetti, Nancy Elias-Rosa, Enrico Cappellaro, Erkki Kankare, Peter Lundqvist, Mark Magee, Kate Maguire, Andrea Pastorello, Simon Prentice, and Andrea Reguitti. Observations of the low-luminosity Type Ia<sub>x</sub> supernova 2019gsc: a fainter clone of SN 2008ha? *Monthly Notices of the Royal Astronomical Society*, 496(2):1132–1143, August 2020
7. M. D. Stritzinger, F. Taddia, M. Fraser, T. M. Tauris, C. Contreras, S. Drybye, L. Galbany, S. Holmbo, N. Morrell, A. Pastorello, M. M. Phillips, G. Pignata, L. Tartaglia, N. B. Suntzeff, J. Anais, C. Ashall, E. Baron, C. R. Burns, P. Hoefflich, E. Y. Hsiao, E. Karamehmetoglu, T. J. Moriya, G. Bock, A. Campillay, S. Castellón, C. Inserra, C. González, P. Marples, S. Parker, D. Reichart, S. Torres-Robledo, and D. R. Young. The Carnegie Supernova Project II. Observations of the luminous red nova AT 2014ej. *Astronomy & Astrophysics*, 639:A104, July 2020
8. M. D. Stritzinger, F. Taddia, M. Fraser, T. M. Tauris, N. B. Suntzeff, C. Contreras, S. Drybye, L. Galbany, S. Holmbo, N. Morrell, M. M. Phillips, J. L. Prieto, J. Anais, C. Ashall, E. Baron, C. R. Burns, P. Hoefflich, E. Y. Hsiao, E. Karamehmetoglu, T. J. Moriya, M. T. Botticella, A. Campillay, S. Castellón, C. González, M. L. Pumo, and S. Torres-Robledo. The Carnegie Supernova Project II. Observations of the intermediate-luminosity red transient SN<sub>hunt</sub>120. *Astronomy & Astrophysics*, 639:A103, July 2020

9. Christopher R. Burns, Chris Ashall, Carlos Contreras, Peter Brown, Maximilian Stritzinger, M. M. Phillips, Ricardo Flores, Nicholas B. Suntzeff, Eric Y. Hsiao, Syed Uddin, Joshua D. Simon, Kevin Krisciunas, Abdo Campillay, Ryan J. Foley, Wendy L. Freedman, Lluís Galbany, Consuelo González, Peter Hoefflich, S. Holmbo, Charles D. Kilpatrick, Robert P. Kirshner, Nidia Morrell, Nahir Muñoz-Elgueta, Anthony L. Piro, César Rojas-Bravo, David Sand, Jaime Vargas-González, Natalie Ulloa, and Jorge Anais Vilchez. SN 2013aa and SN 2017cbv: Two Sibling Type Ia Supernovae in the Spiral Galaxy NGC 5643. *The Astrophysical Journal*, 895(2):118, June 2020
10. F. Taddia, M. D. Stritzinger, C. Fransson, P. J. Brown, C. Contreras, S. Holmbo, T. J. Moriya, M. M. Phillips, J. Sollerman, N. B. Suntzeff, C. Ashall, C. R. Burns, L. Busta, A. Campillay, S. Castellón, C. Corco, F. Di Mille, C. Gall, C. González, E. Y. Hsiao, N. Morrell, A. Nyholm, J. D. Simon, and J. Serón. The Carnegie Supernova Project II. The shock wave revealed through the fog: The strongly interacting Type II In SN 2013L. *Astronomy & Astrophysics*, 638:A92, June 2020
11. Ó. Rodríguez, G. Pignata, J. P. Anderson, T. J. Moriya, A. Clocchiatti, F. Förster, J. L. Prieto, M. M. Phillips, C. R. Burns, C. Contreras, G. Folatelli, C. P. Gutiérrez, M. Hamuy, N. I. Morrell, M. D. Stritzinger, N. B. Suntzeff, S. Benetti, E. Cappellaro, N. Elias-Rosa, A. Pastorello, M. Turatto, J. Maza, R. Antezana, R. Cartier, L. González, J. B. Haislip, V. Kouprianov, P. López, S. Marchi-Lasch, and D. Reichart. Luminous Type II supernovae for their low expansion velocities. *Monthly Notices of the Royal Astronomical Society*, 494(4):5882–5901, June 2020
12. C. Ashall, J. Lu, C. Burns, E. Y. Hsiao, M. Stritzinger, N. B. Suntzeff, M. Phillips, E. Baron, C. Contreras, S. Davis, L. Galbany, P. Hoefflich, S. Holmbo, N. Morrell, E. Karamahmetoglu, K. Krisciunas, S. Kumar, M. Shahbandeh, and S. Uddin. Carnegie Supernova Project-II: A New Method to Photometrically Identify Sub-types of Extreme Type Ia Supernovae. *The Astrophysical Journal Letters*, 895(1):L3, May 2020
13. T. M. Reynolds, M. Fraser, S. Mattila, M. Ergon, L. Dessart, P. Lundqvist, Subo Dong, N. Elias-Rosa, L. Galbany, C. P. Gutiérrez, T. Kangas, E. Kankare, R. Kotak, H. Kuncarayakti, A. Pastorello, O. Rodríguez, S. J. Smartt, M. Stritzinger, L. Tomasella, Ping Chen, J. Harmanen, G. Hosseinzadeh, D. Andrew Howell, C. Inserra, M. Nicholl, M. Nielsen, K. Smith, A. Somero, R. Tronsgaard, and D. R. Young. SN 2016gsd: an unusually luminous and linear Type II supernova with high velocities. *Monthly Notices of the Royal Astronomical Society*, 493(2):1761–1781, April 2020
14. Tyler Takaro, Ryan J. Foley, Curtis McCully, Wen-fai Fong, Saurabh W. Jha, Gautham Narayan, Armin Rest, Maximilian Stritzinger, and Kevin McKinnon. Constraining Type Ia supernova progenitor systems with stellar population age dating. *Monthly Notices of the Royal Astronomical Society*, 493(1):986–1002, March 2020
15. M. D. Stritzinger, F. Taddia, S. Holmbo, E. Baron, C. Contreras, E. Karamahmetoglu, M. M. Phillips, J. Sollerman, N. B. Suntzeff, J. Vinko, C. Ashall, C. Avila, C. R. Burns, A. Campillay, S. Castellon, G. Folatelli, L. Galbany, P. Hoefflich, E. Y. Hsiao, G. H. Marion, N. Morrell, and J. C. Wheeler. The Carnegie Supernova Project II. Early observations and progenitor constraints of the Type Ib supernova LSQ13abf. *Astronomy & Astrophysics*, 634:A21, February 2020
16. Peter Clark, Kate Maguire, Cosimo Inserra, Simon Prentice, Stephen J. Smartt, Carlos Contreras, Griffin Hossenizadeh, Eric Y. Hsiao, Erkki Kankare, Mansi Kasliwal, Peter Nugent, Melissa Shahbandeh, Charles Baltay, David Rabinowitz, Iair Arcavi, Chris Ashall, Christopher R. Burns, Emma Callis, Ting-Wan Chen, Tiara Diamond, Morgan Fraser, D. Andrew Howell, Emir Karamahmetoglu, Rubina Kotak, Joseph Lyman, Nidia Morrell, Mark Phillips, Giuliano Pignata, Miika Pursiainen, Jesper Sollerman, Maximilian Stritzinger, Mark Sullivan, and David Young. LSQ13ddu: a rapidly evolving stripped-envelope supernova with early circumstellar interaction signatures. *Monthly Notices of the Royal Astronomical Society*, 492(2):2208–2228, February 2020
17. Ping Chen, Subo Dong, M. D. Stritzinger, Simon Holmbo, Jay Strader, C. S. Kochanek, Eric W. Peng, S. Benetti, D. Bersier, Sasha Brownsberger, David A. H. Buckley, Mariusz Gromadzki, Shane Moran, A. Pastorello, Elias Aydi, Subhash Bose, Thomas Connor, K. Boutsia, F. Di Mille, N. Elias-Rosa, K. Decker French, Thomas W. S. Holoién, Seppo Mattila, B. J. Shappee, Antony A. Stark, and Samuel J. Swihart.

The Most Rapidly Declining Type I Supernova 2019bkc/ATLAS19dqr. *The Astrophysical Journal Letters*, 889(1):L6, January 2020

18. M. A. Tucker, B. J. Shappee, P. J. Vallely, K. Z. Stanek, J. L. Prieto, J. Botyanszki, C. S. Kochanek, J. P. Anderson, J. Brown, L. Galbany, T. W. S. Holoién, E. Y. Hsiao, S. Kumar, H. Kuncarayakti, N. Morrell, M. M. Phillips, M. D. Stritzinger, and Todd A. Thompson. Nebular Spectra of 111 Type Ia Supernovae Disfavor Single Degenerate Progenitors. *Monthly Notices of the Royal Astronomical Society*, page 3025, Dec 2019
19. S. Davis, E. Y. Hsiao, C. Ashall, P. Höflich, M. M. Phillips, G. H. Marion, R. P. Kirshner, N. Morrell, D. J. Sand, C. Burns, C. Contreras, M. Stritzinger, J. P. Anderson, E. Baron, T. Diamond, C. P. Gutiérrez, M. Hamuy, S. Holmbo, M. M. Kasliwal, K. Krisciunas, S. Kumar, J. Lu, P. J. Pessi, A. L. Piro, J. L. Prieto, M. Shahbandeh, and N. B. Suntzeff. Carnegie Supernova Project-II: Near-infrared Spectroscopic Diversity of Type II Supernovae. *The Astrophysical Journal*, 887(1):4, December 2019
20. Jennifer E. Andrews, D. J. Sand, S. Valenti, Nathan Smith, Raya Dastidar, D. K. Sahu, Kuntal Misra, Avinash Singh, D. Hiramatsu, P. J. Brown, G. Hosseinzadeh, S. Wyatt, J. Vinko, G. C. Anupama, I. Arcavi, Chris Ashall, S. Benetti, Marco Berton, K. A. Bostroem, M. Bulla, J. Burke, S. Chen, L. Chomiuk, A. Cikota, E. Congiu, B. Cseh, Scott Davis, N. Elias-Rosa, T. Faran, Morgan Fraser, L. Galbany, C. Gall, A. Gal-Yam, Anjasha Gangopadhyay, M. Gromadzki, J. Haislip, D. A. Howell, E. Y. Hsiao, C. Inserra, E. Kankare, H. Kuncarayakti, V. Kouprianov, Brajesh Kumar, Xue Li, Han Lin, K. Maguire, P. Mazzali, C. McCully, P. Milne, Jun Mo, N. Morrell, M. Nicholl, P. Ochner, F. Olivares, A. Pastorello, F. Patat, M. Phillips, G. Pignata, S. Prentice, A. Reguitti, D. E. Reichart, Ó. Rodríguez, Liming Rui, Pankaj Sanwal, K. Sárneczky, M. Shahbandeh, Mridweeka Singh, S. Smartt, J. Strader, M. D. Stritzinger, R. Szakáts, L. Tartaglia, Huijuan Wang, Lingzhi Wang, Xiaofeng Wang, J. C. Wheeler, Danfeng Xiang, O. Yaron, D. R. Young, and Junbo Zhang. SN 2017gmr: An Energetic Type II-P Supernova with Asymmetries. *The Astrophysical Journal*, 885(1):43, November 2019
21. G. Terreran, R. Margutti, D. Bersier, J. Brimacombe, D. Caprioli, P. Challis, R. Chornock, D. L. Coppejans, Subo Dong, C. Guidorzi, K. Hurley, R. Kirshner, G. Migliori, D. Milisavljevic, D. M. Palmer, J. L. Prieto, L. Tomasella, P. Marchant, A. Pastorello, B. J. Shappee, K. Z. Stanek, M. D. Stritzinger, S. Benetti, Ping Chen, L. DeMarchi, N. Elias-Rosa, C. Gall, J. Harmanen, and S. Mattila. SN 2016coi (ASASSN-16fp): An Energetic H-stripped Core-collapse Supernova from a Massive Stellar Progenitor with Large Mass Loss. *The Astrophysical Journal*, 883(2):147, October 2019
22. L. Galbany, C. Ashall, P. Höflich, S. González-Gaitán, S. Taubenberger, M. Stritzinger, E. Y. Hsiao, P. Mazzali, E. Baron, S. Blondin, S. Bose, M. Bulla, J. F. Burke, C. R. Burns, R. Cartier, P. Chen, M. Della Valle, T. R. Diamond, C. P. Gutiérrez, J. Harmanen, D. Hiramatsu, T. W. S. Holoién, G. Hosseinzadeh, D. Andrew Howell, Y. Huang, C. Inserra, T. de Jaeger, S. W. Jha, T. Kangas, M. Kromer, J. D. Lyman, K. Maguire, G. Howie Marion, D. Milisavljevic, S. J. Prentice, A. Razza, T. M. Reynolds, D. J. Sand, B. J. Shappee, R. Shekhar, S. J. Smartt, K. G. Stassun, M. Sullivan, S. Valenti, S. Villanueva, X. Wang, J. Craig Wheeler, Q. Zhai, and J. Zhang. Evidence for a Chandrasekhar-mass explosion in the Ca-strong 1991bg-like type Ia supernova 2016hnk. *Astronomy & Astrophysics*, 630:A76, October 2019
23. P. J. Pessi, G. Folatelli, J. P. Anderson, M. Bersten, C. Burns, C. Contreras, S. Davis, B. Englert, M. Hamuy, E. Y. Hsiao, L. Martínez, N. Morrell, M. M. Phillips, N. Suntzeff, and M. D. Stritzinger. Comparison of the optical light curves of hydrogen-rich and hydrogen-poor type II supernovae. *Monthly Notices of the Royal Astronomical Society*, 488(3):4239–4257, September 2019
24. C. Ashall, P. A. Mazzali, E. Pian, S. E. Woosley, E. Palazzi, S. J. Prentice, S. Kobayashi, S. Holmbo, A. Levan, D. Perley, M. D. Stritzinger, F. Bufano, A. V. Filippenko, A. Melandri, S. Oates, A. Rossi, J. Selsing, W. Zheng, A. J. Castro-Tirado, G. Chincarini, P. D’Avanzo, M. De Pasquale, S. Emery, A. S. Fruchter, K. Hurley, P. Moller, K. Nomoto, M. Tanaka, and A. F. Valeev. GRB 161219B/SN 2016jca: a powerful stellar collapse. *Monthly Notices of the Royal Astronomical Society*, 487(4):5824–5839, August 2019
25. P. J. Vallely, M. Fausnaugh, S. W. Jha, M. A. Tucker, Y. Eweis, B. J. Shappee, C. S. Kochanek, K. Z. Stanek, Ping Chen, Subo Dong, J. L. Prieto, T. Sukhbold, Todd A. Thompson, J. Brimacombe, M. D.

- Stritzinger, T. W. S. Holoien, D. A. H. Buckley, M. Gromadzki, and Subhash Bose. ASASSN-18tb: a most unusual Type Ia supernova observed by TESS and SALT. *Monthly Notices of the Royal Astronomical Society*, 487(2):2372–2384, August 2019
26. Ping Chen, Subo Dong, Boaz Katz, C. S. Kochanek, Juna A. Kollmeier, K. Maguire, M. M. Phillips, J. L. Prieto, B. J. Shappee, M. D. Stritzinger, Subhash Bose, Peter J. Brown, T. W. S. Holoien, L. Galbany, Peter A. Milne, Nidia Morrell, Anthony L. Piro, K. Z. Stanek, Todd A. Thompson, and D. R. Young. ASASSN-15pz: Revealing Significant Photometric Diversity among 2009dc-like, Peculiar SNe Ia. *The Astrophysical Journal*, 880(1):35, July 2019
  27. S. Holmbo, M. D. Stritzinger, B. J. Shappee, M. A. Tucker, W. Zheng, C. Ashall, M. M. Phillips, C. Contreras, A. V. Filippenko, P. Hoefflich, M. Huber, A. L. Piro, X. F. Wang, J. J. Zhang, J. Anais, E. Baron, C. R. Burns, A. Campillay, S. Castellón, C. Corco, E. Y. Hsiao, K. Krisciunas, N. Morrell, M. T. B. Nielsen, S. E. Persson, F. Taddia, L. Tomasella, T. M. Zhang, and X. L. Zhao. Discovery and progenitor constraints on the Type Ia supernova 2013gy. *Astronomy & Astrophysics*, 627:A174, July 2019
  28. C. Ashall, P. Hoefflich, E. Y. Hsiao, M. M. Phillips, M. Stritzinger, E. Baron, A. L. Piro, C. Burns, C. Contreras, S. Davis, L. Galbany, S. Holmbo, R. P. Kirshner, K. Krisciunas, G. H. Marion, N. Morrell, D. J. Sand, M. Shahbandeh, N. B. Suntzeff, and F. Taddia. 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(2):86, June 2019
  29. J. S. Brown, K. Z. Stanek, T. W. S. Holoien, C. S. Kochanek, B. J. Shappee, J. L. Prieto, S. Dong, P. Chen, Todd A. Thompson, J. F. Beacom, M. D. Stritzinger, D. Bersier, and J. Brimacombe. The relative specific Type Ia supernovae rate from three years of ASAS-SN. *Monthly Notices of the Royal Astronomical Society*, 484(3):3785–3796, April 2019
  30. C. Ashall, E. Y. Hsiao, P. Hoefflich, M. Stritzinger, M. M. Phillips, N. Morrell, S. Davis, E. Baron, A. L. Piro, C. Burns, C. Contreras, L. Galbany, S. Holmbo, R. P. Kirshner, K. Krisciunas, G. H. Marion, D. J. Sand, M. Shahbandeh, N. B. Suntzeff, and F. Taddia. Carnegie Supernova Project-II: Using Near-infrared Spectroscopy to Determine the Location of the Outer  $^{56}\text{Ni}$  in Type Ia Supernovae. *The Astrophysical Journal Letters*, 875(2):L14, April 2019
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