

K. Azalee Bostroem

Steward Observatory
University of Arizona
Tucson, AZ

bostroem@arizona.edu
<https://github.com/abostroem>
<https://abostroem.wixsite.com/home>

Research Interests	Core-collapse supernovae and their progenitor systems Transient astronomy Big data management in astronomy Development and support of astronomical pipelines and archives	
Employment	LSST-DA CATALYST FELLOW University of Arizona, Tucson, AZ	2022-present
	DiRAC FELLOW University of Washington, Seattle, WA	2021-2022
	SUPERNOVA SPECTROSCOPY ANALYST University of Pittsburgh, Pittsburgh, PA	Fall 2015
	GRADUATE STUDENT RESEARCHER University of California, Davis, CA	2015-2020
	RESEARCH AND INSTRUMENT ANALYST Space Telescope Science Institute, Baltimore, MD	2009-2014
Education	UNIVERSITY OF CALIFORNIA, DAVIS Davis, CA, USA Ph.D. in Physics Thesis Advisor: Stefano Valenti UC President's Pre-Professoriate Fellow, 2020-2021	2014-2021
	SAN DIEGO STATE UNIVERSITY San Diego, CA, USA M.S. in Astronomy Thesis Advisor: Douglas Leonard	2006-2009
	VASSAR COLLEGE Poughkeepsie, NY, USA B.A. in Mathematics California State and New York State Secondary Teaching Certification	2002-2006
Honors & Awards	eScience Data Science Fellow, eScience Institute, University of Washington NASA Hubble 25th Anniversary Commendation, HST Science Team Ray and Constance Chandler Fellowship, UC Davis STScI Group Achievement Award, Space Telescope Science Institute NASA Group Achievement Award, HST SM4 Servicing Implementation Team, NASA Cliff E. Smith and Ruth Kinnell Graduate Fellowship, San Diego State University	2021-2022 2016 2014-2015 2014 2010 2007-2008
Publication Summary	Number of refereed papers: 127 Total number of citations: ~24,500 h-index: 30	

Proposals & Grants	25 proposals \$1,019,576 earned as PI	
	\$12 orbits, Hubble Space Telescope USING EARLY FUV SPECTRA OF TYPE IIP/L SUPERNOVAE TO ELUCIDATE MASS LOSS IN RED SUPERGIANTS P-I: K. Azalee Bostroem	2025
	3 hours rToO, Gemini Observatory RAPID SPECTROSCOPY OF VERY YOUNG, NEARBY SUPERNOVAE P-I: K. Azalee Bostroem	2025
	272 hrs, Las Cumbres Observatory A COMPREHENSIVE STUDY OF INFANT SUPERNOVAE P-I: K. Azalee Bostroem	2025B
	309 hrs, Las Cumbres Observatory A COMPREHENSIVE STUDY OF INFANT SUPERNOVAE P-I: K. Azalee Bostroem	2025A
	30 hours, Gemini Observatory UNDERSTANDING RED SUPERGIANT MASS LOSS WITH LATE-TIME OBSERVATIONS OF HYDROGEN-RICH SUPERNOVAE P-I: K. Azalee Bostroem	2025
	\$71,700/ 10 orbits, Hubble Space Telescope PROBING RED SUPERGIANT MASS LOSS 100-200 YEARS BEFORE EXPLOSION USING UV SPECTRA OF THE EXTRAORDINARY SN 2023IXF P-I: K. Azalee Bostroem	2024
	\$76,728/ 12 orbits, Hubble Space Telescope UNRAVELING RED SUPERGIANT MASS LOSS WITH EARLY FUV SPECTRA OF A TYPE IIP/L SUPERNOVA P-I: K. Azalee Bostroem	2024
	6 orbits, Hubble Space Telescope EXPLORING THE ULTRAVIOLET EVOLUTION OF SN 2024GGI: UNVEILING RED SUPERGIANT MASS LOSS WITH HST SPECTROSCOPY P-I: K. Azalee Bostroem	2024
	\$36,554 / 4 orbits, Hubble Space Telescope TRACING THE UV CSM INTERACTION OVER THE FIRST 50 DAYS IN THE EXTREMELY NEARBY SN 2023IXF IN M101 P-I: K. Azalee Bostroem	2023
	\$426,272/ 3 years, LSST-DA Catalyst Fellowship BRINGING LIGHT-CURVE MODELING INTO THE LSST ERA	2022-present
	\$78,822 / 8 orbits, Hubble Space Telescope THE FIRST EARLY FUV OBSERVATIONS OF A TYPE IIP SUPERNOVA P-I: K. Azalee Bostroem	2022-2023

8 half nights, Apache Point Observatory EARLY SPECTROSCOPIC OBSERVATIONS OF SUPERNOVAE WITH APO P-I: K. Azalee Bostroem	2021-2022
\$288,000/ 3 years, DiRAC Fellowship USING SUPERNOVAE TO STUDY MASSIVE STARS	2021-2022
\$700, Diversity and Inclusion in Physics Travel Award AMERICAN ASTRONOMICAL SOCIETY WINTER MEETING, 2020	2019
14.63 hours, Gemini Observatory PROGENITORS OF TYPE II SUPERNOVAE FROM NEBULAR SPECTRA P-I: K. Azalee Bostroem	2019-2020
\$40,000, AIP Venture Partnership Fund DEVELOPING A DATA CARPENTRY CURRICULUM FOR ASTRONOMERS AND PHYSICISTS P-I: K. A. Bostroem & Rodolfo Montez	2017-2019
\$800, FAMOUS Travel Grant .ASTRONOMY (<i>Dot Astronomy</i>) X CONFERENCE, Baltimore, MD	2018
25.5 hours, Gemini Observatory PROGENITORS OF SNE TYPE II FROM NEBULAR SPECTRA P-I: K. Azalee Bostroem	2018-2019
15 orbits, Hubble Space Telescope General Observer Program THE OPTICAL-UV EXTINCTION LAW IN 30 DORADUS P-I: Jesus Maiz-Apellaniz Admin P-I: K. Azalee Bostroem	2015-2016
6 orbits, Hubble Space Telescope Calibration Program COS NUV SPECTROSCOPIC SENSITIVITY MONITORING P-I: K. Azalee Bostroem	2013-2014
23 orbits, Hubble Space Telescope Calibration Program COS FUV SPECTROSCOPIC SENSITIVITY MONITORING P-I: K. Azalee Bostroem	2013-2014
6 orbits, Hubble Space Telescope Calibration Program COS NUV SPECTROSCOPIC SENSITIVITY MONITORING P-I: K. Azalee Bostroem	2012-2013
33 orbits, Hubble Space Telescope Calibration Program COS FUV SPECTROSCOPIC SENSITIVITY MONITORING P-I: K. Azalee Bostroem	2012-2013
12 orbits, Hubble Space Telescope Calibration Program MAMA SPECTROSCOPIC SENSITIVITY AND FOCUS MONITOR CYCLE 19 P-I: K. Azalee Bostroem	2011-2012

5 orbits, Hubble Space Telescope Calibration Program 2011-2012
 STIS/CCD SPECTROSCOPIC SENSITIVITY MONITOR FOR CYCLE 19
P-I: K. Azalee Bostroem

Invited Talks (24)	Transients from Space (conference), Space Telescope Science Institute, Baltimore, MD	Mar 2025
	Colloquium, UC Merced, Merced, CA	Mar 2025
	Seminar, Caltech/IPAC Pasadena, CA	Jan 2025
	Catalyst Fellows Symposium, Northwestern University, Evanston, IL	Oct 2024
	Rubin Community Workshop Lightning Story (conference), Menlo Park, CA	Jul 2024
	SN 2023ixf: The decadal supernova in M101 (conference), Garching, Germany	Jun 2024
	Astronomy Seminar, Michigan State University, East Lansing, MI	Jan 2024
	Supervirtual (virtual conference on supernovae and related transients)	Nov 2023
	Astrophysics Seminar, Rutgers University, Piscataway, NJ	Oct 2023
	Colloquium, Carnegie Observatories, Pasadena, CA	Feb 2023
	The Future of Transient Science with the Roman Space Telescope (conference), American Astronomical Society 241st Meeting, Seattle, WA	Jan 2023
	Colloquium, Washington State University, Pullman, WA	Nov 2022
	German Astronomical Society (conference), Bremen, Germany	Sept 2022
	DiRAC Seminar Series, University of Washington, Seattle, WA	May 2021
	Astrophysics Seminar, University of California, San Diego	Feb 2021
	San Diego State University, San Diego, CA	
	Astronomical Data Analysis Software and Systems Conference	Nov 2020
	Astronomy Seminar, Michigan State University	Aug 2020
	Transients Around the Globe (conference), Weizmann Institute of Science, Rehovot, Israel	Apr 2019
	Astronomy and Astrophysics Seminar, Tel Aviv University, Tel Aviv, Israel	Apr 2019
	Time-Domain Follow-up Observations with Las Cumbres Observatory, (conference), American Astronomical Society 233rd Meeting, Seattle, WA	Jan 2019
	Keynote; Python in Astronomy (conference), Lorentz Center, Leiden, NL	May 2017
	Northern California Graduate Physics Admissions Bootcamp (workshop), UC Davis, Davis, CA	Aug 2017
	California State Summer School for Mathematics and Science (workshop), UC Davis, Davis, CA	Aug 2017
	Stellar and Extragalactic Astronomy Lunch at the Goddard Space Flight Center, Greenbelt, MD	Jun 2014
Contributed Talks (14)	American Astronomical Society 245rd Meeting, Washington, DC	Jan 2025
	Rise-Time, East Lafayette, IN	Aug 2024
	Rubin Community Workshop, Menlo Park, CA	Jul 2024
	Rare Gems in Big Data, Tucson, AZ	May 2024
	Transients Down Under, Melbourne, Australia	Feb 2024

	American Astronomical Society 243rd Meeting, New Orleans, LA	Jan 2024
	Supernova Explosions: Theory and Observations, Haifa, Israel	Aug 2023
	Transient and Variable Universe, Urbana-Champaign, IL	Jun 2023
	American Astronomical Society 241st Meeting, Seattle, WA	Jan 2023
	American Astronomical Society 235th Meeting Dissertation Talk, Honolulu, HI	Jan 2020
	Astrophysics and Cosmology Symposium, Davis, CA	Sep 2019
	The Extragalactic Explosive Universe, Garching, Germany	Sep 2019
	American Astronomical Society 233rd Meeting, Seattle, WA	Jan 2019
	Astrophysics and Cosmology Symposium, Davis, CA	Sep 2019
	STScI TIPS/JIM Monthly Meeting, Baltimore, MD	Mar 2012
Mentored Students	David Rios (w/ Sarah Loebman)	2024-present
	Analyze the light curve and spectra of SN 2025tis to search for signs of interaction with circumstellar material	
	Apollo Deeney (w/ David Sand)	2024-present
	Determine the progenitors of Type II supernova from late-time spectra	
	Jeniveve Pearson (w/ David Sand)	2022-present
	Characterized the progenitor and explosion properties of SN 2018lab and SN 2022xkq	
	Nicolas Meza (w/ Stefano Valenti)	2020-present
	Characterized Type II SN 2021gmj with Las Cumbres Observatory images	
	Yize Dong (w/ Stefano Valenti)	2020-2024
	Characterized Type II SN 2018cuf and observed nebular supernovae with Keck and Gemini	
	Ezra Thompson	Fall 2021
	Added incomplete trapping to derive accurate nickel masses from Type II supernovae	
	Yasin Chowdhury	2021-2022
	Added incomplete trapping to derive accurate nickel masses from Type II supernovae	
	Isabele Ye (w/ Stefano Valenti)	2018-2019
	Monitor the data acquisition of Type II SNe observed with the Las Cumbres Observatory as part of the Global Supernova Project to ensure the complete light curve is observed.	
	Gayle Zhang (w/ Stefano Valenti)	2017-2018
	Derived the radius around saturated stars within which supernova detections in the DLT40 survey should be considered false positives.	

	Martha Saladino (w/ Justin Ely) Refined the flux calibration of the HST/COS spectroscopy by characterizing throughput as a function of time.	Summer 2012
	Kenneth Hart Improved the calibration of the HST/COS and HST/STIS NUV detectors by characterizing the vignetted region on each.	2011-2012
	Inna Bojinova Improved the flux calibration of the HST/COS spectroscopy by characterizing throughput as a function of wavelength.	Summer 2011
Skills	Expert knowledge of Python, Git/GitHub, SQL Working knowledge of UNIX, IDL, PyRAF, HTML Experience using high-performance computing resources at UC Davis	
Observing Experience	8 half nights, Optical Spectroscopy (<i>APO/DIS, APO/KOSMOS</i>) 6 nights, Optical Spectroscopy and Imaging (<i>Lick Observatory/KAST, Nickel, ShARCS</i>) 18 half nights, Optical Spectroscopy (<i>Keck/LRIS; Keck/DEIMOS</i>) 3 nights, Optical Imaging (<i>Mount Laguna Observatory/40-inch</i>)	
Instrument and Software Support	GLOBAL SUPERNOVA PROJECT PIPELINE PROJECT MANAGER Lead the development and testing of updates to the Photometry Pipeline for the Global Supernova Project, create a user manual, run weekly office hours, and organize tutorials to enable community use. HST/COS AND HST/STIS CALIBRATION PIPELINE LEAD Supervised the development and testing of the HST/COS and HST/STIS pipelines coordinating between the scientists, software developers, and archive team. INSTRUMENT MONITORING AND CALIBRATION Improve the quality of HST/STIS and HST/COS observations through the development of monitoring tools and the development and testing of new calibration reference files. USER SUPPORT DEPUTY Maintained the internal and external web pages, created and delivered Space Telescope Analysis Newsletters, answered help desk questions, and tracked user support issues	
Service	PEER REVIEWER - A&A, APJ, MNRAS Review journal manuscripts and provide recommendations for revision or publication.	2022-present
	CARPENTRIES WORKSHOPS AT AAS MEETINGS Organize and teach Software Carpentry and Data Carpentry Workshops at the AAS Meetings.	2014-present

	CARPENTRIES WORKSHOP AT ADASS Organize and teach Software Carpentry workshop at ADASS meeting.	2023
	FOUNDATIONS OF ASTRONOMICAL DATA SCIENCE LESSON MAINTAINER Incorporated community feedback and implemented curriculum changes via GitHub to the Foundations of Astronomical Data Science data carpentry curriculum.	2021-2023
	PREMAP MENTOR, Seattle, WA Provided mentorship and an introduction to research for two undergraduate students as part of the Pre-Major in Astronomy Program at University of Washington	2021
	CODE REVIEW LEADER, Davis, CA Organize and lead weekly meetings attended by graduate students, post-docs, research staff, and faculty to improve and share coding knowledge and best practices.	2015-2021
	PYTHON LESSON MAINTAINER, Software Carpentry Lessons Provide feedback on and incorporate suggested improvements to the Python lesson using git and GitHub.	2014-2016
	SCIPY CONFERENCE PROCEEDINGS EDITOR Edited conference proceedings via GitHub for conference on scientific computing with Python.	2015
Service/ Committees	LSST TRANSIENT AND VARIABLE STAR SOFTWARE TASKFORCE Organize workshops to prepare the astronomical community to use LSST data.	2024-present
	CURRICULUM ADVISORY COMMITTEE CHAIR Chair the curriculum advisory committee for the Foundations on Astronomical Data Science data carpentry curriculum.	2022-present
	AAS COMMITTEE ON EMPLOYMENT Support the employment and professional development of astronomers in academia and industry.	2020-2023
	POST DOC REPRESENTATIVE, Seattle, WA Organized social activities for the post docs in the astronomy department at University of Washington and represented them on the post doc committee and in faculty meetings	2021-2022
	ANTI-RACISM TRAINING WORKING GROUP, Davis, CA Map out a short, intermediate, and long term plan to implement anti-racism training for all involved with graduate education at UC Davis	2020-2021
	DIVERSITY AND INCLUSION IN PHYSICS GROUP MEMBER AND CO-LEADER, Davis, CA Bring discussions, programs, and activities to the department to improve the departmental culture surrounding diversity, equity, and inclusion.	2014-2021

	PYTHON IN ASTRONOMY SOC MEMBER	2017-2018
	Organized and coordinated the 2018 Python in Astronomy conference.	
	HST SPECTROSCOPIC LEGACY WORKING GROUP, STScI	2013-2014
	Worked to define tools to improve spectroscopic archival products and interface for the HST spectrographs.	
	STScI SUMMER STUDENT SELECTION COMMITTEE, Baltimore, MD	2012
	Evaluated applications for the Space Astronomy Summer Program at STScI.	
	HST CALIBRATION WORKSHOP ORGANIZING COMMITTEE	2012
	Organized and Coordinated the HST Calibration Workshop.	
Service/ Outreach	HUACHUCA ASTRONOMY CLUB LECTURE	2024
	Present my research on supernovae and massive stars	
	SADDLEBROOK STARGAZERS PUBLIC EVENING LECTURE	2024
	Present my research on supernovae and massive stars	
	STEWART OBSERVATORY EVENING PUBLIC LECTURE SERIES	2023
	Present my research on supernovae and massive stars	
	SPACE DRAFTS, Tucson, AZ	2023
	Describe the history and impact of the Hubble Space telescope at free, public event in Tucson.	
	ASTRONOMY ON TAP SEATTLE, Seattle, WA	2022
	Describe my supernova research at free, public event in Seattle.	
	MOUNT DIABLO ASTRONOMICAL SOCIETY, CA	2020
	Describe my supernova research at free, public, meeting of the Mount Diablo Astronomical Society.	
	ASTRONOMY ON TAP, Davis, CA	2019
	Describe the history of the Hubble Space Telescope at free, public event in Davis.	
	PROJECT ASTRO ASTRONOMER, San Diego, CA	2007-2008
	Brought hands on astronomy projects to a third grade class.	
Teaching Experience	LECTURER, ASTRONOMY WITH PYTHON, PIMA COMMUNITY COLLEGE	2000-present
	Taught Python through solving astronomical problems as a course at Pima Community college	
	LEAD INSTRUCTOR, FOUNDATIONS OF ASTRONOMICAL DATA SCIENCE WORKSHOPS	2020-Present
	Organize and lead two day workshops focused on astronomical skills and data sets. Workshops focus on using Python to query an SQL database, filtering and visualizing results, and best data management practices.	

PROJECT LEAD, FOUNDATIONS OF ASTRONOMICAL DATA SCIENCE CURRICULUM DEVELOPMENT 2020-Present

Supervise and co-create a [two-day open source \(CC-BY\) workshop](#) to develop skills to essential for working with current and future astronomical datasets. The curriculum focuses on using Python to query and join SQL databases, filtering and visualizing results, and best data management practices.

LEAD INSTRUCTOR, SOFTWARE CARPENTRY WORKSHOPS 2012-Present

Lead two day workshops at more than 20 international institutions and conferences to enable scientists to work more efficiently and reproducibly by improving their coding skills. Workshops include Python, Git, Unix, test driven development, object oriented and functional programming.

CO-INSTRUCTOR, UNIVERSITY OF CALIFORNIA, DAVIS (Data Science for Science) Spring 2020

Co-developed and taught graduate curriculum based on feedback from alumni in data science on skills they wish they had during their PhD. This included version control, integrated development environments, SQL, advanced Python, communication, and collaboration.

DISCUSSION SECTION LEADER, UNIVERSITY OF CALIFORNIA, DAVIS (PHYS 9C) Winter 2018

Guided students through undergraduate electricity and magnetism for physics majors practice sessions with lecture, small group work, and whole class discussions.

TEACHING ASSISTANT, UNIVERSITY OF CALIFORNIA (PHYS 7A, 7B) 2014-2018

Guided students through lab work to understand thermodynamics, mechanics, electrical circuits, and fluid dynamics with lecture, small group work, and whole class discussions (7 quarters).

LEAD TEACHING ASSISTANT, SAN DIEGO STATE UNIVERSITY Fall 2008

Supervised astronomy lab instructors and prepared them to teach each week.

TEACHING ASSISTANT, SAN DIEGO STATE UNIVERSITY 2006-2009

Enabled a better understanding of general astronomy through hand on applications of topics covered in lecture. Prepared labs, developed lesson plans and curriculum (5 semesters).

MATHEMATICS TEACHER, ROSS VALLEY SUMMER SCHOOL Summer 2006

Designed the curriculum and lesson plans for and taught first through sixth grade mathematics.

UNIVERSE ADVENTURE WEBSITE DESIGN Summer 2005

Designed educational webpages for the Universe Adventure Website at Lawrence Berkeley National Laboratory under the supervision of Dr. George Smoot as part of the Preservice Teacher Program.

MATHEMATICS STUDENT TEACHER, POUGHKEEPSIE HIGH SCHOOL Fall 2005

Created lesson plans and taught a full course load (five periods) of high school mathematics.

SCIENCE TEACHER AND CURRICULUM DESIGNER, CROSSROADS SUMMER CAMP 2003, 2004
Created a curriculum and lesson plans for and taught sixth, seventh, and eighth grade science courses.

Publication List

**First Author
Refereed
Publications**
([ADS link](#))

7. LATE-TIME HUBBLE SPACE TELESCOPE ULTRAVIOLET SPECTRA OF SN 2023IXF AND SN 2024GGI SHOW ONGOING INTERACTION WITH CIRCUMSTELLAR MATERIAL
Bostroem, K. A., Valenti, S., Sand, D. J., Pearson, J., Shrestha, M., Andrews, J. E., Dessart, L., Jacobson-Galan, W. V., Hsu, B., Ravi, A. P., Andrews, M., Christy, C., Dong, Y., Franz, N., Farah, J., Filippenko, A. V., Gill, K., Hoang, E. T., Hosseinzadeh, G., Howell, D. A., Janzen, D., Jencson, J. E., Jha, S. W., Kwok, L. A., Lundquist, M., Martas, A., McCully, C., Mehta, D., Newsome, M., Padilla-Gonzalez, E., Meza Retamal, N. E., Smith, N., Subrayan, B. M., Terreran, G., 2025, arXiv, ([ADS link](#))

6. CIRCUMSTELLAR INTERACTION IN THE ULTRAVIOLET SPECTRA OF SN 2023IXF 14–66 DAYS AFTER EXPLOSION
Bostroem, K. A., Sand, D. J., Dessart, L., Smith, N., Jha, S. W., Valenti, S., Andrews, J. E., Dong, Y., Filippenko, A. V., Gomez, S., Hiramatsu, D., Hoang, E. T., Hosseinzadeh, G., Howell, D. A., Jencson, J. E., Lundquist, M., McCully, C., Mehta, D., Meza-Retamal, N. E., Pearson, J., Ravi, A. P., Shrestha, M., Wyatt, S., 2024, ApJL, 973 ([ADS link](#))

5. CONSIDERING THE SINGLE AND BINARY ORIGINS OF THE TYPE IIP SN 2017EAW
Bostroem, K. A., Zapartas, E., Koplitiz, B., Williams, B. F., Tran, D., Dolphin, A., 2023, AJ, 166 ([ADS link](#))

4. EARLY SPECTROSCOPY AND DENSE CIRCUMSTELLAR MEDIUM INTERACTION IN SN 2023IXF
Bostroem, K. A., Pearson, J., Shrestha, M., Sand, D. J., Valenti, S., Jha, S. W., Andrews, J. E., Smith, N., Terreran, G., Green, E., Dong, Y., Lundquist, M., Haislip, J., Hoang, E. T., Hosseinzadeh, G., Janzen, D., Jencson, J. E., Kouprianov, V., Paraskeva, E., Meza Retamal, N. E., Reichart, D. E., Arcavi, I., Bonanos, A. Z., Coughlin, M. W., Farah, J., Hawley, S., Hebb, L., Hiramatsu, D., Howell, D. A., Iijima, T., Ilyin, I., McCully, C., Moran, S., Morris, B. M., Mura, A. C., Newsome, M., Pabst, M. T., Ochner, P., Padilla Gonzalez, E., Pastorello, A., Pellegrino, C., Ravi, A. P., Reguitti, A., Salo, L., Vinko, J., Wheeler, J. C., Williams, G. G., Wyatt, S., 2023, ApJL, 956 ([ADS link](#))

3. SN 2022ACKO: THE FIRST EARLY FAR-ULTRAVIOLET SPECTRA OF A TYPE IIP SUPERNOVA
Bostroem, K. A., Dessart, L., Hillier, D. J., Lundquist, M., Andrews, J. E., Sand, D. J., Dong, Y., Valenti, S., Haislip, J., Hoang, E. T., Hosseinzadeh, G., Janzen, D., Jencson, J. E., Jha, S. W., Kouprianov, V., Pearson, J., Meza Retamal, N. E., Reichart, D. E., Shrestha, M., Ashall, C., Baron, E., Brown, P. J., DerKacy, J. M., Farah, J., Galbany, L., González Hernández, J. I., Green, E., Hoefflich, P., Howell, D. A., Kwok, L. A., McCully, C., Müller-Bravo, T. E., Newsome, M., Gonzalez, E. P., Pellegrino, C., Rho, J., Rowe, M., Schwab, M., Shahbandeh, M., Smith, N., Strader, J., Terreran, G., Van Dyk, S. D., Wyatt, S., 2023, ApJL, 953 ([ADS link](#))

2. DISCOVERY AND RAPID FOLLOW-UP OBSERVATIONS OF THE UNUSUAL TYPE II SN 2018IVC IN NGC 1068
Bostroem, K. A., Valenti, S., Sand, D. J., Andrews, J. E., Van Dyk, S. D., Galbany,

L., Pooley, D., Amaro, R. C., Smith, N., Yang, S., Anupama, G. C., Arcavi, I., Baron, E., Brown, P. J., Burke, J., Cartier, R., Hiramatsu, D., Dastidar, R., DerKacy, J. M., Dong, Y., Egami, E., Ertel, S., Filippenko, A. V., Fox, O. D., Haislip, J., Hosseinzadeh, G., Howell, D. A., Gangopadhyay, A., Jha, S. W., Kouprianov, V., Kumar, B., Lundquist, M., Milisavljevic, D., McCully, C., Milne, P., Misra, K., Reichart, D. E., Sahu, D. K., Sai, H., Singh, A., Smith, P. S., Vinko, J., Wang, X., Wang, Y., Wheeler, J. C., Williams, G. G., Wyatt, S., Zhang, J., Zhang, X., 2020, ApJ, 895 ([ADS link](#))

1. SIGNATURES OF CIRCUMSTELLAR INTERACTION IN THE TYPE IIL SUPERNOVA ASASSN-15OZ

Bostroem, K. A., Valenti, S., Horesh, A., Morozova, V., Kuin, N. P. M., Wyatt, S., Jerkstrand, A., Sand, D. J., Lundquist, M., Smith, M., Sullivan, M., Hosseinzadeh, G., Arcavi, I., Callis, E., Cartier, R., Gal-Yam, A., Galbany, L., Gutiérrez, C., Howell, D. A., Inserra, C., Kankare, E., López, K. M., McCully, C., Pignata, G., Piro, A. L., Rodríguez, Ó., Smartt, S. J., Smith, K. W., Yaron, O., Young, D. R., 2019, MNRAS, 485 ([ADS link](#))

**Co-Author
Refereed
Publications
([ADS link](#))**

120. SN 2021TSZ: A LUMINOUS, SHORT PHOTOSPHERIC PHASE TYPE II SUPERNOVA IN A LOW-METALLICITY HOST
Dastidar, R., Pignata, G., Dukiya, N., Misra, K., Howell, D. A., Singh, M., Gutiérrez, C. P., Pellegrino, C., Kumar, A., Ayala, B., Gangopadhyay, A., Newsome, M., Padilla Gonzalez, E., **Bostroem, K. A.**, Hiramatsu, D., Terreran, G., McCully, C., 2025, arXiv, ([ADS link](#))

119. ENABLING EARLY TRANSIENT DISCOVERY IN LSST VIA DIFFERENCE IMAGING WITH DECam
Dong, Y., de Soto, K., Villar, V. A., Nugent, A., Gagliano, A., **Bostroem, K. A.**, 2025, arXiv, ([ADS link](#))

118. A PANCHROMATIC VIEW OF LATE-TIME SHOCK POWER IN THE TYPE II SUPERNOVA 2023IXF
Jacobson-Galán, W. V., Dessart, L., Kilpatrick, C. D., Patel, P. J., Auchettl, K., Tinyanont, S., Margutti, R., Dwarkadas, V. V., **Bostroem, K. A.**, Chornock, R., Foley, R. J., Abunemeh, H., Ahumada, T., Arunachalam, P., Bustamante-Rosell, M. J., Coulter, D. A., Gall, C., Gao, H., Guo, X., Hjorth, J., Kaewmookda, M., Kasliwal, M. M., Kaur, R., Larison, C., LeBaron, N., Miao, H.-Y., Narayan, G., Pan, Y.-C., Park, S. H., Patra, K. C., Qin, Y., Ransome, C. L., Rest, A., Rho, J., Rose, S., Sears, H., Swift, J. J., Taggart, K., Villar, V. A., Wang, Q., Zenati, Y., Zhou, H., 2025, arXiv, ([ADS link](#))

117. MID-INFRARED DUST EVOLUTION AND LATE-TIME CIRCUMSTELLAR MEDIUM INTERACTION IN SN 2017EAW
Pearson, J., Subrayan, B., Sand, D. J., Andrews, J. E., Beasor, E. R., **Bostroem, K. A.**, Dong, Y., Hoang, E., Hosseinzadeh, G., Hsu, B., Jacobson-Galán, W., Janzen, D., Jencson, J., Jha, S. W., Kilpatrick, C. D., Kwok, L. A., Liu, C., Lundquist, M. J., Mehta, D., Miller, A. A., Ravi, A. P., Rehemtulla, N., Meza Retamal, N., Shrestha, M., Smith, N., Valenti, S., Whitler, L., 2025, arXiv, ([ADS link](#))

116. SN 2019HNL: A TYPE IIP SUPERNOVA WITH A PARTIALLY STRIPPED, LOW MASS PROGENITOR
Martas, A., Valenti, S., Ravi, A. P., Dong, Y., **Bostroem, K. A.**, Pearson, J., Shrestha, M., Andrews, J. E., Sand, D. J., Hosseinzadeh, G., Lundquist, M., Hoang, E., Mehta, D., Meza Retamal, N., Jha, S. W., Janzen, D., Howell, D. A., McCully, C., Hiramatsu, D.,

- Pellegrino, C., 2025, arXiv, ([ADS link](#))
115. HST DEEP UPPER LIMITS RULE OUT A SURVIVING MASSIVE BINARY COMPANION TO THE TYPE IC SUPERNOVA 2012FH
Williams, B. F., Zapartas, E., Fox, O. D., **Bostroem, K. A.**, Su, J., Koplitiz, B., Van Dyk, S. D., Drout, M. R., Souropanis, D., Milisavljevic, D., Ryder, S. D., de Mink, S. E., Smith, N., Dolphin, A., Filippenko, A. V., Andrews, J. J., Briel, M. M., Gossage, S., Kruckow, M. U., Liotine, C., Srivastava, P. M., Teng, E., 2025, arXiv, ([ADS link](#))
 114. AUTOMATED SPECTROSCOPIC WAVELENGTH CALIBRATION USING DYNAMIC TIME WARPING
Davenport, J. R. A., Chabour Barra, F., **Bostroem, K. A.**, Tuttle, S., Torres, J., Birky, J., Tzanidakis, A., Kadlec, K., Wang, Y., Hawley, S. L., Dorn-Wallenstein, T. Z., Ketzeback, W., Elias, J., Korra, A., Panova, A., Devine, K., Covey, K. R., 2025, arXiv, ([ADS link](#))
 113. NEAR-INFRARED SPECTROSCOPY AND DETECTION OF CARBON MONOXIDE IN THE TYPE II SUPERNOVA SN 2023IXF
Park, S. H., Rho, J., Yoon, S.-C., Pearson, J., Shrestha, M., Tinyanont, S., Geballe, T. R., Foley, R. J., Ravi, A. P., Andrews, J., Sand, D. J., **Bostroem, K. A.**, Ashall, C., Hoefflich, P., Valenti, S., Dong, Y., Meza Retamal, N., Hoang, E., Mehta, D., Howell, D. A., Farah, J. R., Terreran, G., Padilla Gonzalez, E., Andrews, M., Newsome, M., Shahbandeh, M., Smith, N., Kang, J. H., Suntzeff, N., Baron, E., Medler, K., Mera Evans, T., DerKacy, J. M., Larison, C., Galbany, L., Jacobson-Galan, W., 2025, arXiv, ([ADS link](#))
 112. TIP OF THE RED GIANT BRANCH DISTANCES TO NGC 1316, NGC 1380, NGC 1404, & NGC 4457: A PILOT STUDY OF A PARALLEL DISTANCE LADDER USING TYPE IA SUPERNOVAE IN EARLY-TYPE HOST GALAXIES
Newman, M. J. B., Larison, C., Jha, S. W., McQuinn, K. B. W., Skillman, E. D., Dolphin, A. E., Dai, M., Howell, D. A., McCully, C., **Bostroem, K. A.**, Hiramatsu, D., Pellegrino, C., Padilla Gonzalez, E., 2025, arXiv, ([ADS link](#))
 111. WHEN IIB CEASES TO BE: BRIDGING THE GAP BETWEEN IIB AND SHORT-PLATEAU SUPERNOVAE
Farah, J. R., Howell, D. A., Hiramatsu, D., McCully, C., Andrews, M., Newsome, M., Padilla Gonzalez, E., Pellegrino, C., Berger, E., Blanchard, P., Gomez, S., Kumar, H., **Bostroem, K. A.**, Ni, Y. Q., Gagliano, A., Ravi, A. P., 2025, arXiv, ([ADS link](#))
 110. LENSE-THIRRING PRECESSING MAGNETAR ENGINE DRIVES A SUPERLUMINOUS SUPERNOVA
Farah, J. R., Prust, L. J., Howell, D. A., Ni, Y. Q., McCully, C., Andrews, M., Kumar, H., Hiramatsu, D., Wynn, S. G. K., Filippenko, A. V., **Bostroem, K. A.**, Berger, E., Blanchard, P., 2025, arXiv, ([ADS link](#))
 109. TIP OF THE RED GIANT BRANCH DISTANCES TO NGC 1316, NGC 1380, NGC 1404, & NGC 4457: A PILOT STUDY OF A PARALLEL DISTANCE LADDER USING TYPE IA SUPERNOVAE IN EARLY-TYPE HOST GALAXIES
Newman, M. J. B., Larison, C., Jha, S. W., McQuinn, K. B. W., Skillman, E. D., Dolphin, A. E., Dai, M., Howell, D. A., McCully, C., **Bostroem, K. A.**, Hiramatsu, D., Pellegrino, C., Padilla Gonzalez, E., 2025, arXiv, ([ADS link](#))
 108. SN 2022XLP: THE SECOND-KNOWN WELL-OBSERVED, INTERMEDIATE-LUMINOSITY IAX SUPERNOVA

- Bánhidi, D., Barna, B., Szalai, T., Vinkó, J., Bíró, I. B., **Bostroem, K. A.**, Csányi, I., Davis, K. W., Foley, R. J., Galbany, L., Jha, S. W., Howell, D. A., Kwok, L. A., Pál, A., Pellegrino, C., Rojas-Bravo, C., Székely, P., Taggart, K., Terreran, G., Tinyanont, S., 2025, arXiv, ([ADS link](#))
107. PHOTOMETRY AND SPECTROSCOPY OF SN 2024PXL: A LUMINOSITY LINK AMONG TYPE IAX SUPERNOVAE
Singh, M., Kwok, L. A., Jha, S. W., Dastidar, R., Larison, C., Filippenko, A. V., Andrews, J. E., Andrews, M., Anupama, G. C., Arunachalam, P., Auchettl, K., Bánhidi, D., Barna, B., **Bostroem, K. A.**, Brink, T. G., Cartier, R., Chen, P., Christy, C. T., Coulter, D. A., Covarrubias, S., Davis, K. W., Dickinson, C. B., Dong, Y., Farah, J., Flórs, A., Foley, R. J., Franz, N., Fremling, C., Galbany, L., Gangopadhyay, A., Garg, A., Gates, E. L., Graur, O., Gordon, A. C., Hiramatsu, D., Hoang, E., Howell, D. A., Hsu, B., Johansson, J., Joshi, A., Kahinga, L. A., Kaur, R., Kumar, S., Kumnurdmanee, P., Kuncarayakti, H., Lebaron, N., Lidman, C., Liu, C., Maeda, K., Maguire, K., Martin, B., McCully, C., Mehta, D., Menotti, L. M., Metevier, A. J., Miller, A. A., Misra, K., Tanner Murphey, C., Newsome, M., Padilla Gonzalez, E., Patra, K. C., Pearson, J., Piro, A. L., Polin, A., Ravi, A. P., Rest, A., Rehemtulla, N., Meza Retamal, N., Robinson, O. M., Rojas-Bravo, C., Sahu, D. K., Sand, D. J., Schmidt, B. P., Schulze, S., Schwab, M., Shrestha, M., Siebert, M. R., Simha, S., Smith, N., Sollerman, J., Srivastav, S., Subrayan, B. M., Szalai, T., Taggart, K., Singh Teja, R., Terwel, J. H., Tinyanont, S., Valenti, S., Vinkó, J., Westerling, A. L., Yang, Y., Zheng, W., 2025, arXiv, ([ADS link](#))
106. WHAT DOES THE VIRIAL COEFFICIENT OF THE H-BETA BROAD-LINE REGION DEPEND ON?
Villafaña, L., Williams, P. R., Treu, T., Brewer, B. J., Barth, A. J., U, V., Bennert, V. N., Guo, H., Bentz, M. C., Canalizo, G., Filippenko, A. V., Gates, E., Joner, M. D., Malkan, M. A., Woo, J.-H., Abolfathi, B., Bohn, T., **Bostroem, K. A.**, Brandel, A., Brink, T. G., Channa, S., Cosens, M., Donohue, E., Halevi, G., Hood, C. E., Horst, J. C., de Kouchkovsky, M., Kuhn, B., Leonard, D. C., Michel, R., Olaes, M. K. B., Park, D., Runco, J. N., Sexton, R. O., Shivvers, I., Spencer, C. L., Stahl, B. E., Stegman, S., Walsh, J. L., Zheng, W., 2023, arXiv, ([ADS link](#))
105. THE ULTRAVIOLET TYPE IA SUPERNOVA CUBESAT (UVIA): SCIENCE MOTIVATION & MISSION CONCEPT
Hoadley, K., McCully, C., Kyne, G., Cruz Aguirre, F., Andrews, M., Basset, C., **Bostroem, K. A.**, Brown, P. J., Davis, G., Hamden, E. T., Harbeck, D., Hennessy, J., Hoenk, M., Hosseinzadeh, G., Howell, D. A., Jewell, A., Jha, S., Li, J., Milne, P., Moustakas, L., Nikzad, S., Pellegrino, C., Polin, A., Sand, D. J., Shen, K. J., Storrie-Lombardi, L., 2025, Submitted to JATIS, ([ADS link](#))
104. EARLY LIGHTCURVES OF TYPE IA SUPERNOVAE ARE CONSISTENT WITH NONDEGENERATE PROGENITOR COMPANIONS
Burke, J., Andrews, M., Howell, D. A., Sand, D. J., Amaro, R. C., Brown, P. J., Andrews, J. E., **Bostroem, K. A.**, Dong, Y., Haislip, J., Hiramatsu, D., Hosseinzadeh, G., Kouprianov, V., Lundquist, M. J., McCully, C., Pellegrino, C., Reichart, D., Tartaglia, L., Valenti, S., Yang, S., 2022, submitted to ApJ, ([ADS link](#))
103. JWST NIRSPEC+MIRI OBSERVATIONS OF THE NEARBY TYPE IIP SUPERNOVA 2022ACKO
Shahbandeh, M., Ashall, C., Hoefflich, P., Baron, E., Fox, O., Mera, T., DerKacy, J., Stritzinger, M. D., Shappee, B., Law, D., Morrison, J., Pauly, T., Pierel, J., Medler, K., Andrews, J., Baade, D., **Bostroem, K. A.**, Brown, P., Burns, C., Burrow, A., Cikota, A.,

- Cross, D., Davis, S., de Jaeger, T., Do, A., Dong, Y., Hsiao, E., Dominguez, I., Galbany, L., Janzen, D., Jencson, J., Hoang, E., Karamahmetoglu, E., Khaghani, B., Krisciunas, K., Kumar, S., Lu, J., Mazzali, P., Morrell, N., Patat, F., Pearson, J., Pfeffer, C., Wang, L., Yang, Y., Cai, Y. Z., Camacho-Neves, Y., Elias-Rosa, N., Lundquist, M., Maund, J., Phillips, M., Rest, A., Retamal, N., Stangl, S., Shrestha, M., Stevens, C., Suntzeff, N., Telesco, C., Tucker, M., Foley, R., Jha, S., Kwok, L., Larison, C., LeBaron, N., Moran, S., Rho, J., Salmaso, I., Schmidt, J., Tinyanont, S., 2024, arXiv, ([ADS link](#))
102. LIMITS ON THE EJECTA MASS DURING THE SEARCH FOR KILONOVAE ASSOCIATED WITH NEUTRON STAR-BLACK HOLE MERGERS: A CASE STUDY OF S230518H, GW230529, S230627C AND THE LOW-SIGNIFICANCE CANDIDATE S240422ED
Pillas, M., Antier, S., Ackley, K., Ahumada, T., Akl, D., de Almeida, L., Anand, S., Andrade, C., Andreoni, I., **Bostroem, K. A.**, Bulla, M., Burns, E., Cabrera, T., Chang, S., Choi, H., O'Connor, B., Coughlin, M. W., Corradi, W., Gibbs, A. R., Dietrich, T., Dornic, D., Ducoin, J.-G., Duverne, P.-A., Eggenstein, H.-B., Freeberg, M., Dyer, M., Fausnaugh, M., Fong, W.-fai., Foucart, F., Frostig, D., Guessoum, N., Gupta, V., Hello, P., Hosseinzadeh, G., Hu, L., Hussenot-Desenonges, T., Im, M., Jayaraman, R., Jeong, M., Karambelkar, V., Kasliwal, M., Kim, S., Kilpatrick, C. D., Kochiashvili, N., Karpov, S., Kunnumkai, K., Lamoureux, M., Lee, C. U., Lourie, N., Lyman, J., Mašek, M., Magnani, F., Mo, G., Molham, M., Nitz, A. H., Nicholl, M., Navarete, F., Noysena, K., O'Neill, D., Paek, G. S. H., Palmese, A., Poggiani, R., Pradier, T., Pyshna, O., Rajabov, Y., Rastinejad, J. C., Sand, D. J., Shawhan, P., Shrestha, M., Simcoe, R., Smartt, S. J., Steeghs, D., Stein, R., Stevance, H. F., Takey, A., Sun, M., Toivonen, A., Turpin, D., Ulaczyk, K., Wold, A., Wouters, T., 2025, *PhRvD*, 112 ([ADS link](#))
101. A DETECTION OF HELIUM IN THE BRIGHT SUPERLUMINOUS SUPERNOVA SN 2024RMJ
Kumar, H., Berger, E., Blanchard, P. K., Hiramatsu, D., Gomez, S., Gagliano, A., Andrews, M., **Bostroem, K. A.**, Farah, J., Howell, D. A., McCully, C., 2025, *ApJ*, 992 ([ADS link](#))
100. FINAL MOMENTS. III. EXPLOSION PROPERTIES AND PROGENITOR CONSTRAINTS OF CSM-INTERACTING TYPE II SUPERNOVAE
Jacobson-Galán, W. V., Dessart, L., Davis, K. W., **Bostroem, K. A.**, Kilpatrick, C. D., Margutti, R., Filippenko, A. V., Foley, R. J., Chornock, R., Terreran, G., Hiramatsu, D., Newsome, M., Padilla Gonzalez, E., Pellegrino, C., Howell, D. A., Anderson, J. P., Angus, C. R., Auchettl, K., Brink, T. G., Cartier, R., Coulter, D. A., de Boer, T., Drout, M. R., Earl, N., Ertini, K., Farah, J. R., Farias, D., Gall, C., Gao, H., Gerlach, M. A., Guo, F., Haynie, A., Hosseinzadeh, G., Ibik, A. L., Jha, S. W., Jones, D. O., Langeroodi, D., LeBaron, N., Magnier, E. A., Piro, A. L., Raimundo, S. I., Rest, A., Rest, S., Michael Rich, R., Rojas-Bravo, C., Sears, H., Taggart, K., Villar, V. A., Wainscoat, R. J., Wang, X.-F., Wasserman, A. R., Yan, S., Yang, Y., Zhang, J., Zheng, W., 2025, *ApJ*, 992 ([ADS link](#))
99. ONE YEAR OF SN 2023IXF: BREAKING THROUGH THE DEGENERATE PARAMETER SPACE IN LIGHT-CURVE MODELS WITH PULSATING PROGENITORS
Hsu, B., Smith, N., Goldberg, J. A., **Bostroem, K. A.**, Hosseinzadeh, G., Sand, D. J., Pearson, J., Hiramatsu, D., Andrews, J. E., Beasor, E. R., Dong, Y., Farah, J., Galbany, L., Gomez, S., Padilla Gonzalez, E., Gutiérrez, C. P., Howell, D. A., Könyves-Tóth, R., McCully, C., Newsome, M., Shrestha, M., Terreran, G., Villar, V. A., Wang, X., 2025, *ApJ*, 990 ([ADS link](#))
98. EARLY SHOCK COOLING OBSERVATIONS AND PROGENITOR CONSTRAINTS OF TYPE IIB SUPERNOVA SN 2024UWQ
Subrayan, B. M., Sand, D. J., **Bostroem, K. A.**, Jha, S. W., Ravi, A. P., Schwab, M.,

- Andrews, J. E., Hosseinzadeh, G., Valenti, S., Dong, Y., Pearson, J., Shrestha, M., Kwok, L. A., Hoang, E., Rho, J., Park, S. H., Yoon, S.-C., Geballe, T. R., Haislip, J., Janzen, D., Kouprianov, V., Mehta, D., Meza Retamal, N., Reichart, D. E., Andrews, M., Farah, J., Newsome, M., Howell, D. A., McCully, C., 2025, ApJL, 990 ([ADS link](#))
97. JWST AND GROUND-BASED OBSERVATIONS OF THE TYPE IAX SUPERNOVAE SN 2024PXL AND SN 2024VJM: EVIDENCE FOR WEAK DEFLAGRATION EXPLOSIONS
Kwok, L. A., Singh, M., Jha, S. W., Blondin, S., Dastidar, R., Larison, C., Miller, A. A., Andrews, J. E., Andrews, M., Anupama, G. C., Auchettl, K., Bánhidi, D., Barna, B., **Bostroem, K. A.**, Brink, T. G., Cartier, R., Chen, P., Christy, C. T., Coulter, D. A., Covarrubias, S., Davis, K. W., Dickinson, C. B., Dong, Y., Farah, J. R., Filippenko, A. V., Flörs, A., Foley, R. J., Franz, N., Fremling, C., Galbany, L., Gangopadhyay, A., Garg, A., Garnavich, P., Gates, E. L., Graur, O., Gordon, A. C., Hiramatsu, D., Hoang, E., Howell, D. A., Hsu, B., Johansson, J., Joshi, A., Kahinga, L. A., Kaur, R., Kumar, S., Kumnur-dmanee, P., Kuncarayakti, H., LeBaron, N., Liu, C., Maeda, K., Maguire, K., McCully, C., Mehta, D., Menotti, L. M., Metevier, A. J., Misra, K., Murphey, C. T., Newsome, M., Padilla Gonzalez, E., Patra, K. C., Pearson, J., Piro, A. L., Polin, A., Ravi, A. P., Rest, A., Rehemtulla, N., Meza Retamal, N., Robinson, O. M., Rojas-Bravo, C., Sahu, D. K., Sand, D. J., Schmidt, B. P., Schulze, S., Schwab, M., Shrestha, M., Siebert, M. R., Simha, S., Smith, N., Sollerman, J., Subrayan, B. M., Szalai, T., Taggart, K., Teja, R. S., Temim, T., Terwel, J. H., Tinyanont, S., Valenti, S., Anais Vilchez, J., Vinkó, J., Westerling, A. L., Yang, Y., Zheng, W., 2025, ApJL, 989 ([ADS link](#))
96. EVIDENCE FOR AN INSTABILITY-INDUCED BINARY MERGER IN THE DOUBLE-PEAKED, HELIUM-RICH TYPE IIN SUPERNOVA 2023ZKD
Gagliano, A., Villar, V. A., Matsumoto, T., Jones, D. O., Ransome, C. L., Nugent, A. E., Hiramatsu, D., Auchettl, K., Tsuna, D., Dong, Y., Gomez, S., Aleo, P. D., Angus, C. R., de Boer, T., **Bostroem, K. A.**, Chambers, K. C., Coulter, D. A., Davis, K. W., Fairlamb, J. R., Farah, J., Farias, D., Foley, R. J., Gall, C., Gao, H., Gonzalez, E. P., Howell, D. A., Huber, M. E., Kilpatrick, C. D., Lin, C.-C., Lowe, T. B., MacLeod, M. E., Magnier, E. A., McCully, C., Mínguez, P., Narayan, G., Newsome, M., Patra, K. C., Rest, A., Rest, S., Smartt, S., Smith, K. W., Terreran, G., Wainscoat, R. J., Wang, Q., Yadavalli, S. K., Zenati, Y., 2025, ApJ, 989 ([ADS link](#))
95. PROGENITOR INSIGHTS OF TYPE IIP SN 2018PQ: A COMPREHENSIVE PHOTOMETRIC AND SPECTROSCOPIC STUDY
Dubey, M., Misra, K., Dastidar, R., Csörnyei, G., Dukiya, N., Ailawadhi, B., Arcavi, I., **Bostroem, K. A.**, Hiramatsu, D., Hosseinzadeh, G., Howell, D. A., McCully, C., Singh, A. K., 2025, MNRAS, 541 ([ADS link](#))
94. A NEAR-INFRARED SEARCH FOR HELIUM IN THE SUPERLUMINOUS SUPERNOVA SN 2024AHR
Kumar, H., Berger, E., Blanchard, P. K., Gomez, S., Hiramatsu, D., Andrews, M., **Bostroem, K. A.**, Dong, Y., Farah, J., Padilla Gonzalez, E., Howell, D. A., McCully, C., Mehta, D., Newsome, M., Ravi, A. P., Terreran, G., 2025, ApJ, 987 ([ADS link](#))
93. SN 2023EHL: A NORMAL TYPE IA SUPERNOVA WITH HIGH-VELOCITY FEATURES
Zeng, X., Hu, L., Zheng, S., Li, X., Luo, X., Li, S., Howell, D. A., Dong, Y., Valenti, S., Fu, L., Liu, C., Li, S., Zeng, S., Huang, Y., Luo, Y., **Bostroem, K. A.**, McCully, C., Esamdin, A., Andrews, M., Farah, J. R., Newsome, M., Terreran, G., Padilla Gonzalez, E., Hoang, E., Ravi, A. P., Mehta, D., Meza Retamal, N., Zhang, P., Zhang, R., Li, W., Zhang, H., 2025, ApJ, 986 ([ADS link](#))

92. SN 2023XQM: A GRADUALLY FADING IA SUPERNOVA EXHIBITING ISOLATED HIGH-VELOCITY SIGNATURES
Zeng, X., Luo, Y., Wang, X., Li, X., Yang, Y., Zheng, S., Zeng, S., Huang, Y., Li, S., Howell, D. A., **Bostroem, K. A.**, McCully, C., Esamdin, A., Andrews, M., Farah, J. R., Newsome, M., Zhang, H., Zhang, P., Hu, L., 2025, A&A, 698 ([ADS link](#))
91. SHOCK-COOLING CONSTRAINTS VIA EARLY-TIME OBSERVATIONS OF THE TYPE IIB SN 2022HNT
Farah, J. R., Howell, D. A., Terreran, G., Irani, I., Morag, J., Pellegrino, C., McCully, C., Newsome, M., Padilla Gonzalez, E., **Bostroem, K. A.**, Hosseinzadeh, G., Andrews, M., Prust, L., Hiramatsu, D., 2025, ApJ, 984 ([ADS link](#))
90. A MULTIWAVELENGTH AUTOPSY OF THE INTERACTING TYPE IIN SUPERNOVA 2020YWX: TRACING ITS PROGENITOR MASS-LOSS HISTORY FOR 100 YR BEFORE DEATH
Baer-Way, R., Chandra, P., Modjaz, M., Kumar, S., Pellegrino, C., Chevalier, R., Crawford, A., Sarangi, A., Smith, N., Maeda, K., Nayana, A. J., Filippenko, A. V., Andrews, J. E., Arcavi, I., **Bostroem, K. A.**, Brink, T. G., Dong, Y., Dwarkadas, V., Farah, J. R., Howell, D. A., Hiramatsu, D., Hosseinzadeh, G., McCully, C., Meza, N., Newsome, M., Padilla Gonzalez, E., Pearson, J., Sand, D. J., Shrestha, M., Terreran, G., Valenti, S., Wyatt, S., Yang, Y., Zheng, W., 2025, ApJ, 983 ([ADS link](#))
89. SPECTROPOLARIMETRY OF SN 2023IXF REVEALS BOTH CIRCUMSTELLAR MATERIAL AND AN ASPHERICAL HELIUM CORE
Shrestha, M., DeSoto, S., Sand, D. J., Williams, G. G., Hoffman, J. L., Smith, P. S., McCall, C., Maund, J. R., Steele, I. A., Wiersema, K., Andrews, J. E., Smith, N., Bilinski, C., Milne, P., Anche, R. M., **Bostroem, K. A.**, Hosseinzadeh, G., Pearson, J., Leonard, D. C., Hsu, B., Dong, Y., Hoang, E., Janzen, D., Jencson, J. E., Jha, S. W., Lundquist, M. J., Mehta, D., Retamal, N. M., Valenti, S., Farah, J., Howell, D. A., McCully, C., Newsome, M., Gonzalez, E. P., Pellegrino, C., Terreran, G., 2025, ApJL, 982 ([ADS link](#))
88. LUMINOUS TYPE II SHORT-PLATEAU SN 2023UFX: ASYMMETRIC EXPLOSION OF A PARTIALLY STRIPPED MASSIVE PROGENITOR
Ravi, A. P., Valenti, S., Dong, Y., Hiramatsu, D., Barmantloo, S., Jerkstrand, A., **Bostroem, K. A.**, Pearson, J., Shrestha, M., Andrews, J. E., Sand, D. J., Hosseinzadeh, G., Lundquist, M., Hoang, E., Mehta, D., Meza Retamal, N., Martas, A., Jha, S. W., Janzen, D., Subrayan, B., Howell, D. A., McCully, C., Farah, J., Newsome, M., Padilla Gonzalez, E., Terreran, G., Andrews, M., Filippenko, A. V., Brink, T. G., Zheng, W., Yang, Y., Vinkó, J., Wheeler, J. C., Smith, N., Rho, J., Könyves-Tóth, R., Gutiérrez, C. P., 2025, ApJ, 982 ([ADS link](#))
87. SN 2021FOA: THE BRIDGE BETWEEN SN IIN AND IBN
Gangopadhyay, A., Dukiya, N., Moriya, T. J., Tanaka, M., Maeda, K., Howell, D. A., Singh, M., Singh, A., Sollerman, J., Kawabata, K. S., Brennan, S. J., Pellegrino, C., Dastidar, R., Nakaoka, T., Kawabata, M., Misra, K., Schulze, S., Chandra, P., Taguchi, K., Sahu, D. K., McCully, C., **Bostroem, K. A.**, Gonzalez, E. P., Newsome, M., Hiramatsu, D., Takei, Y., Yamanaka, M., Tajitsu, A., Isogai, K., 2025, MNRAS, 537 ([ADS link](#))
86. ASYMMETRIES AND CIRCUMSTELLAR INTERACTION IN THE TYPE II SN 2024BCH
Andrews, J. E., Shrestha, M., **Bostroem, K. A.**, Dong, Y., Pearson, J., Fausnaugh, M. M., Sand, D. J., Valenti, S., Ravi, A. P., Hoang, E., Hosseinzadeh, G., Ilyin, I., Janzen, D., Lundquist, M. J., Meza, N., Smith, N., Jha, S. W., Andrews, M., Farah, J., Padilla Gonzalez, E., Howell, D. A., McCully, C., Newsome, M., Pellegrino, C., Terreran, G., Wiggins,

- P., Hsu, B., Christy, C. T., Franz, N., Wang, X., Liu, J., Chen, L., 2025, ApJ, 980 ([ADS link](#))
85. SN 2018IS: A LOW-LUMINOSITY TYPE IIP SUPERNOVA WITH NARROW HYDROGEN EMISSION LINES AT EARLY PHASES
Dastidar, R., Misra, K., Valenti, S., Sand, D. J., Pastorello, A., Reguitti, A., Pignata, G., Benetti, S., Bose, S., Gangopadhyay, A., Singh, M., Tomasella, L., Andrews, J. E., Arcavi, I., Ashall, C., Bilinski, C., **Bostroem, K. A.**, Buckley, D. A. H., Cannizzaro, G., Chomiuk, L., Congiu, E., Dong, S., Dong, Y., Elias-Rosa, N., Fraser, M., Gall, C., Gromadzki, M., Hiramatsu, D., Hosseinzadeh, G., Howell, D. A., Hsiao, E. Y., McCully, C., Smith, N., Strader, J., 2025, A&A, 694 ([ADS link](#))
84. MAPPING THE INNER 0.1 PC OF A SUPERMASSIVE BLACK HOLE ENVIRONMENT WITH THE TIDAL DISRUPTION EVENT AND EXTREME CORONAL-LINE EMITTER AT 2022UPJ
Newsome, M., Arcavi, I., Howell, D. A., McCully, C., Terreran, G., Hosseinzadeh, G., **Bostroem, K. A.**, Dgany, Y., Farah, J., Faris, S., Padilla-Gonzalez, E., Pellegrino, C., Andrews, M., 2024, ApJ, 977 ([ADS link](#))
83. SN2023FYQ: A TYPE IBN SUPERNOVA WITH LONG-STANDING PRECURSOR ACTIVITY DUE TO BINARY INTERACTION
Dong, Y., Tsuna, D., Valenti, S., Sand, D. J., Andrews, J. E., **Bostroem, K. A.**, Hosseinzadeh, G., Hoang, E., Jha, S. W., Janzen, D., Jencson, J. E., Lundquist, M., Mehta, D., Ravi, A. P., Meza Retamal, N. E., Pearson, J., Shrestha, M., Bonanos, A. Z., Howell, D. A., Smith, N., Farah, J., Hiramatsu, D., Itagaki, K., McCully, C., Newsome, M., Padilla Gonzalez, E., Paraskeva, E., Pellegrino, C., Terreran, G., Haislip, J., Kouprianov, V., Reichart, D. E., 2024, ApJ, 977 ([ADS link](#))
82. THE X-RAY LUMINOUS TYPE IBN SN 2022ABLQ: ESTIMATES OF PREEXPLOSION MASS LOSS AND CONSTRAINTS ON PRECURSOR EMISSION
Pellegrino, C., Modjaz, M., Takei, Y., Tsuna, D., Newsome, M., Pritchard, T., Baer-Way, R., **Bostroem, K. A.**, Chandra, P., Charalampopoulos, P., Dong, Y., Farah, J., Howell, D. A., McCully, C., Mohamed, S., Padilla Gonzalez, E., Terreran, G., 2024, ApJ, 977 ([ADS link](#))
81. PROBING THE CIRCUMSTELLAR ENVIRONMENT OF THE HIGHLY LUMINOUS TYPE IIN SUPERNOVA ASASSN-14IL
Dukiya, N., Gangopadhyay, A., Misra, K., Hosseinzadeh, G., **Bostroem, K. A.**, Ailawadhi, B., Howell, D. A., Valenti, S., Arcavi, I., McCully, C., Gupta, A., 2024, ApJ, 976 ([ADS link](#))
80. A JWST MEDIUM-RESOLUTION MIRI SPECTRUM AND MODELS OF THE TYPE IA SUPERNOVA 2021AEFX AT +415 DAYS
Ashall, C., Hoefflich, P., Baron, E., Shahbandeh, M., DerKacy, J. M., Medler, K., Shappee, B. J., Tucker, M. A., Fereidouni, E., Mera, T., Andrews, J., Baade, D., **Bostroem, K. A.**, Brown, P. J., Burns, C. R., Burrow, A., Cikota, A., de Jaeger, T., Do, A., Dong, Y., Dominguez, I., Fox, O., Galbany, L., Hsiao, E. Y., Krisciunas, K., Khaghani, B., Kumar, S., Lu, J., Maund, J. R., Mazzali, P., Morrell, N., Patat, F., Pfeffer, C., Phillips, M. M., Schmidt, J., Stangl, S., Stevens, C. P., Stritzinger, M. D., Suntzeff, N. B., Telesco, C. M., Wang, L., Yang, Y., 2024, ApJ, 975 ([ADS link](#))
79. CHARACTERIZING THE RAPID HYDROGEN DISAPPEARANCE IN SN 2022CRV: EVIDENCE OF A CONTINUUM BETWEEN TYPE IB AND IIB SUPERNOVA PROPERTIES
Dong, Y., Valenti, S., Ashall, C., Williamson, M., Sand, D. J., Van Dyk, S. D., Filippenko,

- A. V., Jha, S. W., Lundquist, M., Modjaz, M., Andrews, J. E., Jencson, J. E., Hosseinzadeh, G., Pearson, J., Kwok, L. A., Boland, T., Hsiao, E. Y., Smith, N., Elias-Rosa, N., Srivastav, S., Smartt, S., Fulton, M., Zheng, W., Brink, T. G., Shahbandeh, M., **Bostroem, K. A.**, Hoang, E., Janzen, D., Mehta, D., Meza, N., Shrestha, M., Wyatt, S., Auchettl, K., Burns, C. R., Farah, J., Galbany, L., Padilla Gonzalez, E., Haislip, J., Hinkle, J. T., Howell, D. A., De Jaeger, T., Kouprianov, V., Kumar, S., Lu, J., McCully, C., Moran, S., Morrell, N., Newsome, M., Pellegrino, C., Polin, A., Reichart, D. E., Shappee, B. J., Stritzinger, M. D., Terreran, G., Tucker, M. A., 2024, ApJ, 974 ([ADS link](#))
78. EJECTA MASSES IN TYPE IA SUPERNOVAE—IMPLICATIONS FOR THE PROGENITOR AND THE EXPLOSION SCENARIO
Bora, Z., Könyves-Tóth, R., Vinkó, J., Bánhidi, D., Bíró, I. B., **Bostroem, K. A.**, Bódi, A., Burke, J., Csányi, I., Cseh, B., Farah, J., Filippenko, A. V., Hegedüs, T., Hiramatsu, D., Horti-Dávid, Á., Howell, D. A., Jha, S. W., Kalup, C., Krezinger, M., Kriskovics, L., McCully, C., Newsome, M., Ordasi, A., Gonzalez, E. P., Pál, A., Pellegrino, C., Seli, B., Sódor, Á., Szabó, Z. M., Szabó, O. N., Szakáts, R., Szalai, T., Székely, P., Terreran, G., Varga, V., Vida, K., Wang, X., Wheeler, J. C., 2024, PASP, 136 ([ADS link](#))
77. AT2023VTO: AN EXCEPTIONALLY LUMINOUS HELIUM TIDAL DISRUPTION EVENT FROM A MASSIVE STAR
Kumar, H., Berger, E., Hiramatsu, D., Gomez, S., Blanchard, P. K., Cendes, Y., **Bostroem, K. A.**, Farah, J., Padilla Gonzalez, E., Howell, D. A., McCully, C., Newsome, M., Terreran, G., 2024, ApJL, 974 ([ADS link](#))
76. EXTENDED SHOCK BREAKOUT AND EARLY CIRCUMSTELLAR INTERACTION IN SN 2024GGI
Shrestha, M., **Bostroem, K. A.**, Sand, D. J., Hosseinzadeh, G., Andrews, J. E., Dong, Y., Hoang, E., Janzen, D., Pearson, J., Jencson, J. E., Lundquist, M. J., Mehta, D., Ravi, A. P., Meza Retamal, N., Valenti, S., Brown, P. J., Jha, S. W., Macrie, C., Hsu, B., Farah, J., Howell, D. A., McCully, C., Newsome, M., Padilla Gonzalez, E., Pellegrino, C., Terreran, G., Kwok, L., Smith, N., Schwab, M., Martas, A., Munoz, R. R., Medina, G. E., Li, T. S., Diaz, P., Hiramatsu, D., Tucker, B. E., Wheeler, J. C., Wang, X., Zhai, Q., Zhang, J., Gangopadhyay, A., Yang, Y., Gutierrez, C. P., 2024, ApJL, 972 ([ADS link](#))
75. FINAL MOMENTS. II. OBSERVATIONAL PROPERTIES AND PHYSICAL MODELING OF CIRCUMSTELLAR-MATERIAL-INTERACTING TYPE II SUPERNOVAE
Jacobson-Galán, W. V., Dessart, L., Davis, K. W., Kilpatrick, C. D., Margutti, R., Foley, R. J., Chornock, R., Terreran, G., Hiramatsu, D., Newsome, M., Padilla Gonzalez, E., Pellegrino, C., Howell, D. A., Filippenko, A. V., Anderson, J. P., Angus, C. R., Auchettl, **K.**, **Bostroem, K. A.**, Brink, T. G., Cartier, R., Coulter, D. A., de Boer, T., Drout, M. R., Earl, N., Ertini, K., Farah, J. R., Farias, D., Gall, C., Gao, H., Gerlach, M. A., Guo, F., Haynie, A., Hosseinzadeh, G., Ibik, A. L., Jha, S. W., Jones, D. O., Langeroodi, D., LeBaron, N., Magnier, E. A., Piro, A. L., Raimundo, S. I., Rest, A., Rest, S., Rich, R. M., Rojas-Bravo, C., Sears, H., Taggart, K., Villar, V. A., Wainscoat, R. J., Wang, X.-F., Wasserman, A. R., Yan, S., Yang, Y., Zhang, J., Zheng, W., 2024, ApJ, 970 ([ADS link](#))
74. CIRCUMSTELLAR INTERACTION SIGNATURES IN THE LOW-LUMINOSITY TYPE II SN 2021GMJ
Meza-Retamal, N., Dong, Y., **Bostroem, K. A.**, Valenti, S., Galbany, L., Pearson, J., Hosseinzadeh, G., Andrews, J. E., Sand, D. J., Jencson, J. E., Janzen, D., Lundquist, M. J., Hoang, E. T., Wyatt, S., Brown, P. J., Howell, D. A., Newsome, M., Padilla Gonzalez, E., Pellegrino, C., Terreran, G., Kouprianov, V., Hiramatsu, D., Jha, S. W., Smith, N., Haislip, J., Reichart, D. E., Shrestha, M., Rosales-Ortega, F. F., Brink, T. G., Filippenko, A. V., Zheng, W., Yang, Y., 2024, ApJ, 971 ([ADS link](#))

73. SN 2020UDY: A NEW PIECE OF THE HOMOGENEOUS BRIGHT GROUP IN THE DIVERSE IAX SUBCLASS
Singh, M., Sahu, D. K., Barna, B., Gangopadhyay, A., Dastidar, R., Singh Teja, R., Misra, K., Howell, D. A., Wang, X., Mo, J., Yan, S., Hiramatsu, D., Pellegrino, C., Anupama, G. C., Joshi, A., **Bostroem, K. A.**, Burke, J., McCully, C., Subramanian V, R., Li, G., Xi, G., Li, X., Li, Z., Srivastav, S., Im, H., Dutta, A., 2024, ApJ, 965 ([ADS link](#))
72. LIGHT-CURVE STRUCTURE AND HALPHA LINE FORMATION IN THE TIDAL DISRUPTION EVENT AT 2019AZH
Faris, S., Arcavi, I., Makrygianni, L., Hiramatsu, D., Terreran, G., Farah, J., Howell, D. A., McCully, C., Newsome, M., Padilla Gonzalez, E., Pellegrino, C., **Bostroem, K. A.**, Abojanb, W., Lam, M. C., Tomasella, L., Brink, T. G., Filippenko, A. V., French, K. D., Clark, P., Graur, O., Leloudas, G., Gromadzki, M., Anderson, J. P., Nicholl, M., Gutierrez, C. P., Kankare, E., Inserra, C., Galbany, L., Reynolds, T., Mattila, S., Heikkila, T., Wang, Y., Onori, F., Wevers, T., Charalampopoulos, P., Johansson, J., 2024, ApJ, 969 ([ADS link](#))
71. SN 2022JOX: AN EXTRAORDINARILY ORDINARY TYPE II SN WITH FLASH SPECTROSCOPY
Andrews, J. E., Pearson, J., Hosseinzadeh, G., **Bostroem, K. A.**, Dong, Y., Shrestha, M., Jencson, J. E., Sand, D. J., Valenti, S., Hoang, E., Janzen, D., Lundquist, M. J., Meza, N., Wyatt, S., Jha, S. W., Simpson, C., Farah, J., Padilla Gonzalez, E., Howell, D. A., McCully, C., Newsome, M., Pellegrino, C., Terreran, G., 2024, ApJ, 965 ([ADS link](#))
70. MULTIPLE PEAKS AND A LONG PRECURSOR IN THE TYPE IIN SUPERNOVA 2021QQP: AN ENERGETIC EXPLOSION IN A COMPLEX CIRCUMSTELLAR ENVIRONMENT
Hiramatsu, D., Matsumoto, T., Berger, E., Ransome, C., Villar, V. A., Gomez, S., Cendes, Y., De, K., **Bostroem, K. A.**, Farah, J., Howell, D. A., McCully, C., Newsome, M., Padilla Gonzalez, E., Pellegrino, C., Suzuki, A., Terreran, G., 2024, ApJ, 964 ([ADS link](#))
69. SAGUARO: TIME-DOMAIN INFRASTRUCTURE FOR THE FOURTH GRAVITATIONAL-WAVE OBSERVING RUN AND BEYOND
Hosseinzadeh, G., Paterson, K., Rastinejad, J. C., Shrestha, M., Daly, P. N., Lundquist, M. J., Sand, D. J., Fong, W.-. fai ., **Bostroem, K. A.**, Hall, S., Wyatt, S. D., Gibbs, A. R., Christensen, E., Lindstrom, W., Nation, J., Chatelain, J., McCully, C., 2024, ApJ, 964 ([ADS link](#))
68. GROUND-BASED AND JWST OBSERVATIONS OF SN 2022PUL: II. EVIDENCE FROM NEBULAR SPECTROSCOPY FOR A VIOLENT MERGER IN A PECULIAR TYPE-IA SUPERNOVA
Kwok, L. A., Siebert, M. R., Johansson, J., Jha, S. W., Blondin, S., Dessart, L., Foley, R. J., Hillier, D. J., Larison, C., Pakmor, R., Temim, T., Andrews, J. E., Auchettl, K., Badenes, C., Barna, B., **Bostroem, K. A.**, Brenner Newman, M. J., Brink, T. G., Bustamante-Rosell, M. J., Camacho-Neves, Y., Clocchiatti, A., Coulter, D. A., Davis, K. W., Deckers, M., Dimitriadis, G., Dong, Y., Farah, J., Filippenko, A. V., Flors, A., Fox, O. D., Garnavich, P., Padilla Gonzalez, E., Graur, O., Hamsch, F.-J., Hosseinzadeh, G., Howell, D. A., Hughes, J. P., Kerzendorf, W. E., Le Saux, X. K., Maeda, K., Maguire, K., McCully, C., Mihalenko, C., Newsome, M., O'Brien, J. T., Pearson, J., Pellegrino, C., Pierel, J. D. R., Polin, A., Rest, A., Rojas-Bravo, C., Sand, D. J., Schwab, M., Shahbandeh, M., Shrestha, M., Smith, N., Strolger, L.-G., Szalai, T., Taggart, K., Terreran, G., Terwel, J. H., Tinyanont, S., Valenti, S., Vinko, J., Wheeler, J. C., Yang, Y., Zheng, W., Ashall, C., DerKacy, J. M., Galbany, L., Hoefflich, P., de Jaeger, T., Lu, J., Maund, J., Medler, K., Morrell, N., Shappee, B. J., Stritzinger, M., Suntzeff, N., Tucker, M., Wang, L., 2024, ApJ,

966 ([ADS link](#))

67. SN 2022JOJ: A POTENTIAL DOUBLE DETONATION WITH A THIN HELIUM SHELL
Padilla Gonzalez, E., Howell, D. A., Terreran, G., McCully, C., Newsome, M., Burke, J., Farah, J., Pellegrino, C., **Bostroem, K. A.**, Hosseinzadeh, G., Pearson, J., Sand, D. J., Shrestha, M., Smith, N., Dong, Y., Meza Retamal, N., Valenti, S., Boos, S., Shen, K. J., Townsley, D., Galbany, L., Piscarreta, L., Foley, R. J., Bustamante-Rosell, M. J., Coulter, D. A., Chornock, R., Davis, K. W., Dickinson, C. B., Jones, D. O., Kutcka, J., Le Saux, X. K., Rojas-Bravo, C. R., Taggart, K., Tinyanont, S., Yang, G., Jha, S. W., Margutti, R., 2024, ApJ, 964 ([ADS link](#))

66. A LOW-MASS HELIUM STAR PROGENITOR MODEL FOR THE TYPE IBN SN 2020NXT
Wang, Q., Goel, A., Dessart, L., Fox, O. D., Shahbandeh, M., Rest, S., Rest, A., Groh, J. H., Allan, A., Fransson, C., Smith, N., Hosseinzadeh, G., Filippenko, A. V., Andrews, J., **Bostroem, K. A.**, Brink, T. G., Brown, P., Burke, J., Chevalier, R., Clayton, G. C., Dai, M., Davis, K. W., Foley, R. J., Gomez, S., Harris, C., Hiramatsu, D., Howell, D. A., Jennings, C., Jha, S. W., Kasliwal, M. M., Kelly, P. L., Kool, E. C., Liu, E., Ma, E., McCully, C., Miller, A. M., Murakami, Y., Pellegrino, C., Padilla Gonzalez, E., Perera, D., Pierel, J., Rojas-Bravo, C., Siebert, M. R., Sollerman, J., Szalai, T., Tinyanont, S., Van Dyk, S. D., Zheng, W., Chambers, K. C., Coulter, D. A., de Boer, T., Earl, N., Farias, D., Gall, C., McGill, P., Ransome, C. L., Taggart, K., Villar, V. A., 2024, MNRAS, 530 ([ADS link](#))

65. EVIDENCE OF WEAK CIRCUMSTELLAR MEDIUM INTERACTION IN THE TYPE II SN 2023AXU
Shrestha, M., Pearson, J., Wyatt, S., Sand, D. J., Hosseinzadeh, G., **Bostroem, K. A.**, Andrews, J. E., Dong, Y., Hoang, E., Janzen, D., Jencson, J. E., Lundquist, M., Mehta, D., Retamal, N. M., Valenti, S., Rastinejad, J. C., Daly, P., Porter, D., Hinz, J., Self, S., Weiner, B., Williams, G. G., Hiramatsu, D., Howell, D. A., McCully, C., Gonzalez, E. P., Pellegrino, C., Terreran, G., Newsome, M., Farah, J., Itagaki, K., Jha, S. W., Kwok, L., Smith, N., Schwab, M., Rho, J., Yang, Y., 2024, ApJ, 961 ([ADS link](#))

64. JWST MIRI/MEDIUM RESOLUTION SPECTROGRAPH (MRS) OBSERVATIONS AND SPECTRAL MODELS OF THE UNDERLUMINOUS TYPE IA SUPERNOVA 2022XKQ
DerKacy, J. M., Ashall, C., Hoefflich, P., Baron, E., Shahbandeh, M., Shappee, B. J., Andrews, J., Baade, D., Balangan, E. F., **Bostroem, K. A.**, Brown, P. J., Burns, C. R., Burrow, A., Cikota, A., de Jaeger, T., Do, A., Dong, Y., Dominguez, I., Fox, O., Galbany, L., Hoang, E. T., Hsiao, E. Y., Janzen, D., Jencson, J. E., Krisciunas, K., Kumar, S., Lu, J., Lundquist, M., Mera Evans, T. B., Maund, J. R., Mazzali, P., Medler, K., Meza Retamal, N. E., Morrell, N., Patat, F., Pearson, J., Phillips, M. M., Shrestha, M., Stangl, S., Stevens, C. P., Stritzinger, M. D., Suntzeff, N. B., Telesco, C. M., Tucker, M. A., Valenti, S., Wang, L., Yang, Y., 2024, ApJ, 961 ([ADS link](#))

63. GROUND-BASED AND JWST OBSERVATIONS OF SN 2022PUL. I. UNUSUAL SIGNATURES OF CARBON, OXYGEN, AND CIRCUMSTELLAR INTERACTION IN A PECULIAR TYPE IA SUPERNOVA
Siebert, M. R., Kwok, L. A., Johansson, J., Jha, S. W., Blondin, S., Dessart, L., Foley, R. J., Hillier, D. J., Larison, C., Pakmor, R., Temim, T., Andrews, J. E., Auchettl, K., Badenes, C., Barna, B., **Bostroem, K. A.**, Brenner Newman, M. J., Brink, T. G., Bustamante-Rosell, M. J., Camacho-Neves, Y., Clocchiatti, A., Coulter, D. A., Davis, K. W., Deckers, M., Dimitriadis, G., Dong, Y., Farah, J., Filippenko, A. V., Flörs, A., Fox, O. D., Garnavich, P., Padilla Gonzalez, E., Graur, O., Hambsch, F.-J., Hosseinzadeh, G., Howell, D. A., Hughes, J. P., Kerzendorf, W. E., Le Saux, X. K., Maeda, K., Maguire, K., McCully, C., Mihalenko, C., Newsome, M., O'Brien, J. T., Pearson, J., Pellegrino, C.,

- Pierel, J. D. R., Polin, A., Rest, A., Rojas-Bravo, C., Sand, D. J., Schwab, M., Shahbandeh, M., Shrestha, M., Smith, N., Strolger, L.-G., Szalai, T., Taggart, K., Terreran, G., Terwel, J. H., Tinyanont, S., Valenti, S., Vinkó, J., Wheeler, J. C., Yang, Y., Zheng, W., Ashall, C., DerKacy, J. M., Galbany, L., Hoefflich, P., Hsiao, E., de Jaeger, T., Lu, J., Maund, J., Medler, K., Morrell, N., Shappee, B. J., Stritzinger, M., Suntzeff, N., Tucker, M., Wang, L., 2024, *ApJ*, 960 ([ADS link](#))
62. STRONG CARBON FEATURES AND A RED EARLY COLOR IN THE UNDERLUMINOUS TYPE IA SN 2022XKQ
 Pearson, J., Sand, D. J., Lundqvist, P., Galbany, L., Andrews, J. E., **Bostroem, K. A.**, Dong, Y., Hoang, E., Hosseinzadeh, G., Janzen, D., Jencson, J. E., Lundquist, M. J., Mehta, D., Meza Retamal, N., Shrestha, M., Valenti, S., Wyatt, S., Anderson, J. P., Ashall, C., Auchettl, K., Baron, E., Blondin, S., Burns, C. R., Cai, Y., Chen, T.-W., Chomiuk, L., Coulter, D. A., Cross, D., Davis, K. W., de Jaeger, T., DerKacy, J. M., Desai, D. D., Dimitriadis, G., Do, A., Farah, J. R., Foley, R. J., Gromadzki, M., Gutiérrez, C. P., Haislip, J., González Hernández, J. I., Hinkle, J. T., Hoogendam, W. B., Howell, D. A., Hoefflich, P., Hsiao, E., Huber, M. E., Jha, S. W., Jiménez Palau, C., Kilpatrick, C. D., Kouprianov, V., Kumar, S., Kwok, L. A., Larison, C., LeBaron, N., Le Saux, X., Lu, J., McCully, C., Mera Evans, T., Milne, P., Modjaz, M., Morrell, N., Müller-Bravo, T. E., Newsome, M., Nicholl, M., Padilla Gonzalez, E., Payne, A. V., Pellegrino, C., Phan, K., Pineda-García, J., Piro, A. L., Piscarreta, L., Polin, A., Reichart, D. E., Rojas-Bravo, C., Ryder, S. D., Salmaso, I., Schwab, M., Shahbandeh, M., Shappee, B. J., Siebert, M. R., Smith, N., Strader, J., Taggart, K., Terreran, G., Tinyanont, S., Tucker, M. A., Valerin, G., Young, D. R., 2024, *ApJ*, 960 ([ADS link](#))
61. A COMPREHENSIVE OPTICAL SEARCH FOR PRE-EXPLOSION OUTBURSTS FROM THE QUIESCENT PROGENITOR OF SN 2023IXF
 Dong, Y., Sand, D. J., Valenti, S., **Bostroem, K. A.**, Andrews, J. E., Hosseinzadeh, G., Hoang, E., Janzen, D., Jencson, J. E., Lundquist, M., Meza Retamal, N. E., Pearson, J., Shrestha, M., Haislip, J., Kouprianov, V., Reichart, D. E., 2023, *ApJ*, 957 ([ADS link](#))
60. CONSTRAINTS ON THE MULTIPLICITY OF THE MOST MASSIVE STARS KNOWN: R136 A1, A2, A3, AND C
 Shenar, T., Sana, H., Crowther, P. A., **Bostroem, K. A.**, Mahy, L., Najarro, F., Oskinova, L., Sander, A. A. C., 2023, *A&A*, 679 ([ADS link](#))
59. FROM DISCOVERY TO THE FIRST MONTH OF THE TYPE II SUPERNOVA 2023IXF: HIGH AND VARIABLE MASS LOSS IN THE FINAL YEAR BEFORE EXPLOSION
 Hiramatsu, D., Tsuna, D., Berger, E., Itagaki, K., Goldberg, J. A., Gomez, S., De, K., Hosseinzadeh, G., **Bostroem, K. A.**, Brown, P. J., Arcavi, I., Bieryla, A., Blanchard, P. K., Esquerdo, G. A., Farah, J., Howell, D. A., Matsumoto, T., McCully, C., Newsome, M., Padilla Gonzalez, E., Pellegrino, C., Rhee, J., Terreran, G., Vinkó, J., Wheeler, J. C., 2023, *ApJL*, 955 ([ADS link](#))
58. HIGH-RESOLUTION SPECTROSCOPY OF SN 2023IXF’S FIRST WEEK: ENGULFING THE ASYMMETRIC CIRCUMSTELLAR MATERIAL
 Smith, N., Pearson, J., Sand, D. J., Ilyin, I., **Bostroem, K. A.**, Hosseinzadeh, G., Shrestha, M., 2023, *ApJ*, 956 ([ADS link](#))
57. IDENTIFYING THE SN 2022ACKO PROGENITOR WITH JWST
 Van Dyk, S. D., **Bostroem, K. A.**, Zheng, W., Brink, T. G., Fox, O. D., Andrews, J. E., Filippenko, A. V., Dong, Y., Hoang, E., Hosseinzadeh, G., Janzen, D., Jencson, J.

- E., Lundquist, M. J., Meza, N., Milisavljevic, D., Pearson, J., Sand, D. J., Shrestha, M., Valenti, S., Howell, D. A., 2023, MNRAS, 524 ([ADS link](#))
56. SN 2020BIO: A DOUBLE-PEAKED, H-POOR TYPE IIB SUPERNOVA WITH EVIDENCE OF CIRCUMSTELLAR INTERACTION
Pellegrino, C., Hiramatsu, D., Arcavi, I., Howell, D. A., **Bostroem, K. A.**, Brown, P. J., Burke, J., Elias-Rosa, N., Itagaki, K., Kaneda, H., McCully, C., Modjaz, M., Padilla Gonzalez, E., Pritchard, T. A., Yesmin, N., 2023, ApJ, 954 ([ADS link](#))
55. THE EARLY LIGHT CURVE OF SN 2023BEE: CONSTRAINING TYPE IA SUPERNOVA PROGENITORS THE APIAN WAY
Hosseinzadeh, G., Sand, D. J., Sarbadhicary, S. K., Ryder, S. D., Jha, S. W., Dong, Y., **Bostroem, K. A.**, Andrews, J. E., Hoang, E., Janzen, D., Jencson, J. E., Lundquist, M., Meza Retamal, N. E., Pearson, J., Shrestha, M., Valenti, S., Wyatt, S., Farah, J., Howell, D. A., McCully, C., Newsome, M., Padilla Gonzalez, E., Pellegrino, C., Terreran, G., Alzababi, M., Green, E. M., Gurney, J. L., Milne, P. A., Ridenhour, K. I., Smith, N., Robles, P. S., Kwok, L. A., Schwab, M., Gromadzki, M., Buckley, D. A. H., Itagaki, K., Hiramatsu, D., Chomiuk, L., Lundqvist, P., Haislip, J., Kouprianov, V., Reichart, D. E., 2023, ApJL, 953 ([ADS link](#))
54. AT 2021LOI: A BOWEN FLUORESCENCE FLARE WITH A REBRIGHTENING EPISODE OCCURRING IN A PREVIOUSLY KNOWN AGN
Makrygianni, L., Trakhtenbrot, B., Arcavi, I., Ricci, C., Lam, M. C., Horesh, A., Sfaradi, I., **Bostroem, K. A.**, Hosseinzadeh, G., Howell, D. A., Pellegrino, C., Fender, R., Green, D. A., Williams, D. R. A., Bright, J., 2023, ApJ, 953 ([ADS link](#))
53. A LUMINOUS RED SUPERGIANT AND DUSTY LONG-PERIOD VARIABLE PROGENITOR FOR SN 2023IXF
Jencson, J. E., Pearson, J., Beasor, E. R., Lau, R. M., Andrews, J. E., **Bostroem, K. A.**, Dong, Y., Engesser, M., Gomez, S., Guolo, M., Hoang, E., Hosseinzadeh, G., Jha, S. W., Karambelkar, V., Kasliwal, M. M., Lundquist, M., Meza Retamal, N. E., Rest, A., Sand, D. J., Shahbandeh, M., Shrestha, M., Smith, N., Strader, J., Valenti, S., Wang, Q., Zenati, Y., 2023, ApJL, 952 ([ADS link](#))
52. SHOCK COOLING AND POSSIBLE PRECURSOR EMISSION IN THE EARLY LIGHT CURVE OF THE TYPE II SN 2023IXF
Hosseinzadeh, G., Farah, J., Shrestha, M., Sand, D. J., Dong, Y., Brown, P. J., **Bostroem, K. A.**, Valenti, S., Jha, S. W., Andrews, J. E., Arcavi, I., Haislip, J., Hiramatsu, D., Hoang, E., Howell, D. A., Janzen, D., Jencson, J. E., Kouprianov, V., Lundquist, M., McCully, C., Meza Retamal, N. E., Modjaz, M., Newsome, M., Padilla Gonzalez, E., Pearson, J., Pellegrino, C., Ravi, A. P., Reichart, D. E., Smith, N., Terreran, G., Vinkó, J., 2023, ApJL, 953 ([ADS link](#))
51. OBSERVATIONAL PROPERTIES OF A BRIGHT TYPE LAX SN 2018CNI AND A FAINT TYPE IAX SN 2020KYG
Singh, M., Sahu, D. K., Dastidar, R., Barna, B., Misra, K., Gangopadhyay, A., Howell, D. A., Jha, S. W., Im, H., Taggart, K., Andrews, J., Hiramatsu, D., Teja, R. S., Pellegrino, C., Foley, R. J., Joshi, A., Anupama, G. C., **Bostroem, K. A.**, Burke, J., Camacho-Neves, Y., Dutta, A., Kwok, L. A., McCully, C., Pan, Y.-C., Siebert, M., Srivastav, S., Szalai, T., Swift, J. J., Yang, G., Zhou, H., DiLullo, N., Scheer, J., 2023, ApJ, 953 ([ADS link](#))

50. NEAR-INFRARED AND OPTICAL OBSERVATIONS OF TYPE IC SN 2021KRF: LUMINOUS LATE-TIME EMISSION AND DUST FORMATION
Ravi, A. P., Rho, J., Park, S., Park, S. H., Yoon, S.-C., Geballe, T. R., Vinkó, J., Tinyanont, S., **Bostroem, K. A.**, Burke, J., Hiramatsu, D., Howell, D. A., McCully, C., Newsome, M., Padilla Gonzalez, E., Pellegrino, C., Cartier, R., Pritchard, T., Andersen, M., Blinnikov, S., Dong, Y., Blanchard, P., Kilpatrick, C. D., Hoefflich, P., Valenti, S., Filippenko, A. V., Suntzeff, N. B., Seok, J. Y., Könyves-Tóth, R., Foley, R. J., Siebert, M. R., Jones, D. O., 2023, ApJ, 950 ([ADS link](#))

49. SN 2017FZW: A FAST-EXPANDING TYPE IA SUPERNOVA WITH TRANSITIONAL FEATURES
Huang, J., Li, Y., Zeng, X., Zheng, S., Bird, S. A., Zhang, J., Esamdin, A., Iskandar, A., **Bostroem, K. A.**, Zeng, S., Xiao, Y., Huang, Y., Howell, D. A., McCully, C., Li, W., Zhang, T., Wang, L., Hu, L., 2023, Univ, 9 ([ADS link](#))

48. WHAT DOES THE GEOMETRY OF THE H β BLR DEPEND ON?
Villafaña, L., Williams, P. R., Treu, T., Brewer, B. J., Barth, A. J., U, V., Bennert, V. N., Guo, H., Bentz, M. C., Canalizo, G., Filippenko, A. V., Gates, E., Joner, M. D., Malkan, M. A., Woo, J.-H., Abolfathi, B., Bohn, T., **Bostroem, K. A.**, Brandel, A., Brink, T. G., Channa, S., Cosens, M., Donohue, E., Halevi, G., Hood, C. E., Horst, J. C., de Kouchkovsky, M., Kuhn, B., Leonard, D. C., Michel, R., B. Olaes, M. K., Park, D., Runco, J. N., Sexton, R. O., Shivvers, I., Spencer, C. L., Stahl, B. E., Stegman, S., Walsh, J. L., Zheng, W., 2023, ApJ, 948 ([ADS link](#))

47. CIRCUMSTELLAR MEDIUM INTERACTION IN SN 2018LAB, A LOW-LUMINOSITY II-P SUPERNOVA OBSERVED WITH TESS
Pearson, J., Hosseinzadeh, G., Sand, D. J., Andrews, J. E., Jencson, J. E., Dong, Y., **Bostroem, K. A.**, Valenti, S., Janzen, D., Meza Retamal, N., Lundquist, M. J., Wyatt, S., Amaro, R. C., Burke, J., Howell, D. A., McCully, C., Hiramatsu, D., Jha, S. W., Smith, N., Haislip, J., Kouprianov, V., Reichart, D. E., Yang, Y., Roy, R., Rho, J., 2022, 2023, ApJ, 945, ([ADS link](#))

46. LIMIT ON SUPERNOVA EMISSION IN THE BRIGHTEST GAMMA-RAY BURST, GRB 221009A
Shrestha, M., Sand, D. J., Alexander, K. D., **Bostroem, K. A.**, Hosseinzadeh, G., Pearson, J., Aghakhanloo, M., Vinkó, J., Andrews, J. E., Jencson, J. E., Lundquist, M. J., Wyatt, S., Howell, D. A., McCully, C., Gonzalez, E. P., Pellegrino, C., Terreran, G., Hiramatsu, D., Newsome, M., Farah, J., Jha, S. W., Smith, N., Wheeler, J. C., Martínez-Vázquez, C., Carballo-Bello, J. A., Drlica-Wagner, A., James, D. J., Mutlu-Pakdil, B., Stringfellow, G. S., Sakowska, J. D., Noël, N. E. D., Bom, C. R., Kuehn, K., 2023, ApJL, 946 ([ADS link](#))

45. THE ORIGIN AND EVOLUTION OF THE NORMAL TYPE IA SN 2018AOZ WITH INFANT-PHASE REDDENING AND EXCESS EMISSION
Ni, Y. Q., Moon, D.-S., Drout, M. R., Polin, A., Sand, D. J., González-Gaitán, S., Kim, S. C., Lee, Y., Park, H. S., Howell, D. A., Nugent, P. E., Piro, A. L., Brown, P. J., Galbany, L., Burke, J., Hiramatsu, D., Hosseinzadeh, G., Valenti, S., Afsariardchi, N., Andrews, J. E., Antoniadis, J., Beaton, R. L., **Bostroem, K. A.**, Carlberg, R. G., Cenko, S. B., Cha, S.-M., Dong, Y., Gal-Yam, A., Haislip, J., Holoien, T. W.-S., Johnson, S. D., Kouprianov, V., Lee, Y., Matzner, C. D., Morrell, N., McCully, C., Pignata, G., Reichart, D. E., Rich, J., Ryder, S. D., Smith, N., Wyatt, S., Yang, S., 2022, 2023, ApJ, 946, ([ADS link](#))

44. JWST LOW-RESOLUTION MIRI SPECTRAL OBSERVATIONS OF SN 2021AEFX: HIGH-DENSITY BURNING IN A TYPE IA SUPERNOVA

- DerKacy, J. M., Ashall, C., Hoefflich, P., Baron, E., Shappee, B. J., Baade, D., Andrews, J., **Bostroem, K. A.**, Brown, P. J., Burns, C. R., Burrow, A., Cikota, A., de Jaeger, T., Do, A., Dong, Y., Dominguez, I., Galbany, L., Hsiao, E. Y., Karamahmetoglu, E., Krisciunas, K., Kumar, S., Lu, J., Evans, T. B. M., Maund, J. R., Mazzali, P., Medler, K., Morrell, N., Patat, F., Phillips, M. M., Shahbandeh, M., Stangl, S., Stevens, C. P., Stritzinger, M. D., Suntzeff, N. B., Telesco, C. M., Tucker, M. A., Valenti, S., Wang, L., Yang, Y., Jha, S. W., Kwok, L. A., 2023, ApJL, 945 ([ADS link](#))
43. FORBIDDEN HUGS IN PANDEMIC TIMES. IV. PANCHROMATIC EVOLUTION OF THREE LUMINOUS RED NOVAE
Pastorello, A., Valerin, G., Fraser, M., Reguitti, A., Elias-Rosa, N., Filippenko, A. V., Rojas-Bravo, C., Tartaglia, L., Reynolds, T. M., Valenti, S., Andrews, J. E., Ashall, C., **Bostroem, K. A.**, Brink, T. G., Burke, J., Cai, Y.-Z., Cappellaro, E., Coulter, D. A., Dastidar, R., Davis, K. W., Dimitriadis, G., Fiore, A., Foley, R. J., Fugazza, D., Galbany, L., Gangopadhyay, A., Geier, S., Gutierrez, C. P., Haislip, J., Hiramatsu, D., Holmbo, S., Howell, D. A., Hsiao, E. Y., Hung, T., Jha, S. W., Kankare, E., Karamahmetoglu, E., Kilpatrick, C. D., Kotak, R., Kouprianov, V., Kravtsov, T., Kumar, S., Li, Z.-T., Lundquist, M. J., Lundqvist, P., Matilainen, K., Mazzali, P. A., McCully, C., Misra, K., Morales-Garoffolo, A., Moran, S., Morrell, N., Newsome, M., Padilla Gonzalez, E., Pan, Y.-C., Pellegrino, C., Phillips, M. M., Pignata, G., Piro, A. L., Reichart, D. E., Rest, A., Salmaso, I., Sand, D. J., Siebert, M. R., Smartt, S. J., Smith, K. W., Srivastav, S., Stritzinger, M. D., Taggart, K., Tayanont, S., Yan, S.-Y., Wang, L., Wang, X.-F., Williams, S. C., Wyatt, S., Zhang, T.-M., de Boer, T., Chambers, K., Gao, H., Magnier, E., 2022, 2023, A&A, 671 ([ADS link](#))
42. A JWST NEAR- AND MID-INFRARED NEBULAR SPECTRUM OF THE TYPE IA SUPERNOVA 2021AEFX
Kwok, L. A., Jha, S. W., Temim, T., Fox, O. D., Larison, C., Camacho-Neves, Y., Brenner Newman, M. J., Pierel, J. D. R., Foley, R. J., Andrews, J. E., Badenes, C., Barna, B., **Bostroem, K. A.**, Deckers, M., Flörs, A., Garnavich, P., Graham, M. L., Graur, O., Hosseinzadeh, G., Howell, D. A., Hughes, J. P., Johansson, J., Kendrew, S., Kerzendorf, W. E., Maeda, K., Maguire, K., McCully, C., O'Brien, J. T., Rest, A., Sand, D. J., Shahbandeh, M., Strolger, L.-G., Szalai, T., Ashall, C., Baron, E., Burns, C. R., DerKacy, J. M., Evans, T. M., Fisher, A., Galbany, L., Hoefflich, P., Hsiao, E., de Jaeger, T., Karamahmetoglu, E., Krisciunas, K., Kumar, S., Lu, J., Maund, J., Mazzali, P. A., Medler, K., Morrell, N., Phillips, M. M., Shappee, B. J., Stritzinger, M., Suntzeff, N., Telesco, C., Tucker, M., Wang, L., 2023, ApJL, 944 ([ADS link](#))
41. PHOTOMETRIC AND SPECTROSCOPIC ANALYSIS OF THE TYPE II SN 2020JFO WITH A SHORT PLATEAU
Ailawadhi, B., Dastidar, R., Misra, K., Roy, R., Hiramatsu, D., Howell, D. A., Brink, T. G., Zheng, W., Galbany, L., Shahbandeh, M., Arcavi, I., Ashall, C., **Bostroem, K. A.**, Burke, J., Chapman, T., Dimple, Filippenko, A. V., Gangopadhyay, A., Ghosh, A., Hoffman, A. M., Hosseinzadeh, G., Jennings, C., Jha, V. K., Kumar, A., Karamahmetoglu, E., McCully, C., McGinness, E., Müller-Bravo, T. E., Murakami, Y. S., Pandey, S. B., Pellegrino, C., Piscarreta, L., Rho, J., Stritzinger, M., Sunseri, J., Van Dyk, S. D., Yadav, L., 2023, MNRAS, 519 ([ADS link](#))
40. JWST IMAGING OF THE CARTWHEEL GALAXY REVEALS DUST ASSOCIATED WITH SN 2021AFDX
Hosseinzadeh, G., Sand, D. J., Jencson, J. E., Andrews, J. E., Shivaiei, I., **Bostroem, K. A.**, Valenti, S., Szalai, T., Burke, J., Howell, D. A., McCully, C., Newsome, M., Gonzalez,

- E. P., Pellegrino, C., Terreran, G., 2023, ApJL, 942 ([ADS link](#))
39. A MULTIWAVELENGTH VIEW OF THE RAPIDLY EVOLVING SN 2018IVC: AN ANALOG OF SN IIB 1993J BUT POWERED PRIMARILY BY CIRCUMSTELLAR INTERACTION
Maeda, K., Chandra, P., Moriya, T. J., Reguitti, A., Ryder, S., Matsuoka, T., Michiyama, T., Pignata, G., Hiramatsu, D., **Bostroem, K. A.**, Kundu, E., Kuncarayakti, H., Bersten, M. C., Pooley, D., Lee, S.-H., Patnaude, D., Rodríguez, Ó., Folatelli, G., 2023, ApJ, 942 ([ADS link](#))
 38. OPTICAL STUDIES OF A BRIGHT TYPE IAX SUPERNOVA SN 2020REA
Singh, M., Misra, K., Sahu, D. K., Ailawadhi, B., Dutta, A., Howell, D. A., Anupama, G. C., **Bostroem, K. A.**, Burke, J., Dastidar, R., Gangopadhyay, A., Hiramatsu, D., Im, H., McCully, C., Pellegrino, C., Srivastav, S., Teja, R. S., 2022, MNRAS, 517, ([ADS link](#))
 37. THE PROPERTIES OF FAST YELLOW PULSATING SUPERGIANTS: FYPS POINT THE WAY TO MISSING RED SUPERGIANTS
Dorn-Wallenstein, T. Z., Levesque, E. M., Davenport, J. R. A., Neugent, K. F., Morris, B. M., **Bostroem, K. A.**, 2022, ApJ, 940 ([ADS link](#))
 36. HIGH-CADENCE TESS AND GROUND-BASED DATA OF SN 2019ESA, THE LESS ENERGETIC SIBLING OF SN 2006GY
Andrews, J. E., Pearson, J., Lundquist, M. J., Sand, D. J., Jencson, J. E., **Bostroem, K. A.**, Hosseinzadeh, G., Valenti, S., Smith, N., Amaro, R. C., Dong, Y., Janzen, D., Meza, N., Wyatt, S., Burke, J., Hiramatsu, D., Howell, D. A., McCully, C., Pellegrino, C., 2022, ApJ, 938 ([ADS link](#))
 35. THE DIVERSE PROPERTIES OF TYPE ICN SUPERNOVAE POINT TO MULTIPLE PROGENITOR CHANNELS
Pellegrino, C., Howell, D. A., Terreran, G., Arcavi, I., **Bostroem, K. A.**, Brown, P. J., Burke, J., Dong, Y., Gilkis, A., Hiramatsu, D., Hosseinzadeh, G., McCully, C., Modjaz, M., Newsome, M., Gonzalez, E. P., Pritchard, T. A., Sand, D. J., Valenti, S., Williamson, M., 2022, ApJ, 938 ([ADS link](#))
 34. WEAK MASS LOSS FROM THE RED SUPERGIANT PROGENITOR OF THE TYPE II SN 2021YJA
Hosseinzadeh, G., Kilpatrick, C. D., Dong, Y., Sand, D. J., Andrews, J. E., **Bostroem, K. A.**, Janzen, D., Jencson, J. E., Lundquist, M., Meza Retamal, N. E., Pearson, J., Valenti, S., Wyatt, S., Burke, J., Hiramatsu, D., Howell, D. A., McCully, C., Newsome, M., Gonzalez, E. P., Pellegrino, C., Terreran, G., Auchettl, K., Davis, K. W., Foley, R. J., Miao, H.-Y., Pan, Y.-C., Rest, A., Siebert, M. R., Taggart, K., Tucker, B. E., Cyrus Leung, F. L., Swift, J. J., Yang, G., Anderson, J. P., Ashall, C., Benetti, S., Brown, P. J., Cartier, R., Chen, T.-W., Della Valle, M., Galbany, L., Gomez, S., Gromadzki, M., Haislip, J., Hsiao, E. Y., Inserra, C., Jha, S. W., Killestein, T. L., Kouprianov, V., Kozyreva, A., Müller-Bravo, T. E., Nicholl, M., Paraskeva, E., Reichart, D. E., Ryder, S., Shahbandeh, M., Shappee, B., Smith, N., Young, D. R., 2022, ApJ, 935 ([ADS link](#))
 33. SN 2016DSG: A THERMONUCLEAR EXPLOSION INVOLVING A THICK HELIUM SHELL
Dong, Y., Valenti, S., Polin, A., Boyle, A., Flörs, A., Vogl, C., Kerzendorf, W. E., Sand, D. J., Jha, S. W., Wyrzykowski, L., **Bostroem, K. A.**, Pearson, J., McCully, C., Andrews, J. E., Benetti, S., Blondin, S., Galbany, L., Gromadzki, M., Hosseinzadeh, G., Howell, D. A., Inserra, C., Jencson, J. E., Lundquist, M., Lyman, J. D., Magee, M., Maguire, K., Meza,

- N., Srivastav, S., Taubenberger, S., Terwel, J. H., Wyatt, S., Young, D. R., 2022, *ApJ*, 934 ([ADS link](#))
32. CONSTRAINING THE PROGENITOR SYSTEM OF THE TYPE IA SUPERNOVA 2021AEFX
Hossein-zadeh, G., Sand, D. J., Lundqvist, P., Andrews, J. E., **Bostroem, K. A.**, Dong, Y., Janzen, D., Jencson, J. E., Lundquist, M., Meza Retamal, N. E., Pearson, J., Valenti, S., Wyatt, S., Burke, J., Howell, D. A., McCully, C., Newsome, M., Gonzalez, E. P., Pellegrino, C., Terreran, G., Kwok, L. A., Jha, S. W., Strader, J., Kundu, E., Ryder, S. D., Haislip, J., Kouprianov, V., Reichart, D. E., 2022, *ApJL*, 933 ([ADS link](#))
 31. SN 2020ACAT: AN ENERGETIC FAST RISING TYPE IIB SUPERNOVA
Medler, K., Mazzali, P. A., Teffs, J., Ashall, C., Anderson, J. P., Arcavi, I., Benetti, S., **Bostroem, K. A.**, Burke, J., Cai, Y.-Z., Charalampopoulos, P., Elias-Rosa, N., Ergon, M., Galbany, L., Gromadzki, M., Hiramatsu, D., Howell, D. A., Inserra, C., Lundqvist, P., McCully, C., Müller-Bravo, T., Newsome, M., Nicholl, M., Padilla Gonzalez, E., Paraskeva, E., Pastorello, A., Pellegrino, C., Pessi, P. J., Reguitti, A., Reynolds, T. M., Roy, R., Terreran, G., Tomasella, L., Young, D. R., 2022, *MNRAS*, 513 ([ADS link](#))
 30. THE LICK AGN MONITORING PROJECT 2016: DYNAMICAL MODELING OF VELOCITY-RESOLVED $H\beta$ LAGS IN LUMINOUS SEYFERT GALAXIES
Villafañã, L., Williams, P. R., Treu, T., Brewer, B. J., Barth, A. J., U, V., Bennert, V. N., Alexander Vogler, H., Guo, H., Bentz, M. C., Canalizo, G., Filippenko, A. V., Gates, E., Hamann, F., Joner, M. D., Malkan, M. A., Woo, J.-H., Abolfathi, B., Abramson, L. E., Armen, S. F., Bae, H.-J., Bohn, T., Boizelle, B. D., **Bostroem, K. A.**, Brandel, A., Brink, T. G., Channa, S., Cooper, M. C., Cosens, M., Donohue, E., Fillingham, S. P., González-Buitrago, D., Halevi, G., Halle, A., Hood, C. E., Horne, K., Chuck Horst, J., de Kouchkovsky, M., Kuhn, B., Kumar, S., Leonard, D. C., Loveland, D., Manzano-King, C., McHardy, I., Michel, R., Olaes, M. K. B., Park, D., Park, S., Pei, L., Ross, T. W., Runco, J. N., Sánchez, J., Scott, B., Sexton, R. O., Shin, J., Shivvers, I., Spencer, C. L., Stahl, B. E., Stegman, S., Stomberg, I., Valenti, S., Walsh, J. L., Yuk, H., Zheng, W., 2022, *ApJ*, 930 ([ADS link](#))
 29. NEBULAR-PHASE SPECTRA OF TYPE IA SUPERNOVAE FROM THE LAS CUMBRES OBSERVATORY GLOBAL SUPERNOVA PROJECT
Graham, M. L., Kennedy, T. D., Kumar, S., Amaro, R. C., Sand, D. J., Jha, S. W., Galbany, L., Vinko, J., Wheeler, J. C., Hsiao, E. Y., **Bostroem, K. A.**, Burke, J., Hiramatsu, D., Hossein-zadeh, G., McCully, C., Howell, D. A., Diamond, T., Hoeflich, P., Wang, X., Li, W., 2022, *MNRAS*, 511 ([ADS link](#))
 28. THE CANDIDATE PROGENITOR COMPANION STAR OF THE TYPE IB/C SN 2013GE
Fox, O. D., Van Dyk, S. D., Williams, B. F., Drout, M., Zapartas, E., Smith, N., Milisavljevic, D., Andrews, J. E., **Bostroem, K. A.**, Filippenko, A. V., Gomez, S., Kelly, P. L., de Mink, S. E., Pierel, J., Rest, A., Ryder, S., Sravan, N., Strolger, L., Wang, Q., Weil, K. E., 2022, *ApJL*, 929 ([ADS link](#))
 27. INFANT-PHASE REDDENING BY SURFACE FE-PEAK ELEMENTS IN A NORMAL TYPE IA SUPERNOVA
Ni, Y. Q., Moon, D.-S., Drout, M. R., Polin, A., Sand, D. J., González-Gaitán, S., Kim, S. C., Lee, Y., Park, H. S., Howell, D. A., Nugent, P. E., Piro, A. L., Brown, P. J., Galbany, L., Burke, J., Hiramatsu, D., Hossein-zadeh, G., Valenti, S., Afsariardchi, N., Andrews, J. E., Antoniadis, J., Arcavi, I., Beaton, R. L., **Bostroem, K. A.**, Carlberg, R. G., Cenko, S. B., Cha, S.-M., Dong, Y., Gal-Yam, A., Haislip, J., Holoiën, T. W.-S., Johnson, S. D.,

- Kouprianov, V., Lee, Y., Matzner, C. D., Morrell, N., McCully, C., Pignata, G., Reichart, D. E., Rich, J., Ryder, S. D., Smith, N., Wyatt, S., Yang, S., 2022, *NatAs*, 6 ([ADS link](#))
26. THE GRAVITY COLLECTIVE: A SEARCH FOR THE ELECTROMAGNETIC COUNTERPART TO THE NEUTRON STAR-BLACK HOLE MERGER GW190814
Kilpatrick, C. D., Coulter, D. A., Arcavi, I., Brink, T. G., Dimitriadis, G., Filippenko, A. V., Foley, R. J., Howell, D. A., Jones, D. O., Kasen, D., Makler, M., Piro, A. L., Rojas-Bravo, C., Sand, D. J., Swift, J. J., Tucker, D., Zheng, W., Allam, S. S., Annis, J. T., Antilen, J., Bachmann, T. G., Bloom, J. S., Bom, C. R., **Bostroem, K. A.**, Brout, D., Burke, J., Butler, R. E., Butner, M., Campillay, A., Clever, K. E., Conselice, C. J., Cooke, J., Dage, K. C., de Carvalho, R. R., de Jaeger, T., Desai, S., Garcia, A., Garcia-Bellido, J., Gill, M. S. S., Girish, N., Hallakoun, N., Herner, K., Hiramatsu, D., Holz, D. E., Huber, G., Kawash, A. M., McCully, C., Medallion, S. A., Metzger, B. D., Modak, S., Morgan, R., Muñoz, R. R., Muñoz-Elgueta, N., Murakami, Y. S., Felipe Olivares, E., Palmese, A., Patra, K. C., Pereira, M. E. S., Pessi, T. L., Pineda-Garcia, J., Quirola-Vásquez, J., Ramirez-Ruiz, E., Rembold, S. B., Rest, A., Rodríguez, Ó., Santana-Silva, L., Sherman, N. F., Siebert, M. R., Smith, C., Smith, J. A., Soares-Santos, M., Stacey, H., Stahl, B. E., Strader, J., Strasburger, E., Sunseri, J., Tinyanont, S., Tucker, B. E., Ulloa, N., Valenti, S., Vasylyev, S. S., Wiesner, M. P., Zhang, K. D., 2021, *ApJ*, 923 ([ADS link](#))
25. CIRCUMSTELLAR MEDIUM CONSTRAINTS ON THE ENVIRONMENT OF TWO NEARBY TYPE IA SUPERNOVAE: SN 2017CBV AND SN 2020NLB
Sand, D. J., Sarbadhicary, S. K., Pellegrino, C., Misra, K., Dastidar, R., Brown, P. J., Itagaki, K., Valenti, S., Swift, J. J., Andrews, J. E., **Bostroem, K. A.**, Burke, J., Chomiuk, L., Dong, Y., Galbany, L., Graham, M. L., Hiramatsu, D., Howell, D. A., Hsiao, E. Y., Janzen, D., Jencson, J. E., Lundquist, M. J., McCully, C., Reichart, D., Smith, N., Wang, L., Wyatt, S., 2021, *ApJ*, 922 ([ADS link](#))
24. A BRIGHT ULTRAVIOLET EXCESS IN THE TRANSITIONAL 02ES-LIKE TYPE IA SUPERNOVA 2019YVQ
Burke, J., Howell, D. A., Sarbadhicary, S. K., Sand, D. J., Amaro, R. C., Hiramatsu, D., McCully, C., Pellegrino, C., Andrews, J. E., Brown, P. J., Itagaki, K., Shahbandeh, M., **Bostroem, K. A.**, Chomiuk, L., Hsiao, E. Y., Smith, N., Valenti, S., 2021, *ApJ*, 919 ([ADS link](#))
23. AT 2019QYL IN NGC 300: INTERNAL COLLISIONS IN THE EARLY OUTFLOW FROM A VERY FAST NOVA IN A SYMBIOTIC BINARY
Jencson, J. E., Andrews, J. E., Bond, H. E., Karambelkar, V., Sand, D. J., van Dyk, S. D., Blagorodnova, N., Boyer, M. L., Kasliwal, M. M., Lau, R. M., Mohamed, S., Williams, R., Whitelock, P. A., Amaro, R. C., **Bostroem, K. A.**, Dong, Y., Lundquist, M. J., Valenti, S., Wyatt, S. D., Burke, J., De, K., Jha, S. W., Johansson, J., Rojas-Bravo, C., Coulter, D. A., Foley, R. J., Gehrz, R. D., Haislip, J., Hiramatsu, D., Howell, D. A., Kilpatrick, C. D., Masci, F. J., McCully, C., Ngeow, C.-C., Pan, Y.-C., Pellegrino, C., Piro, A. L., Kouprianov, V., Reichart, D. E., Rest, A., Rest, S., Smith, N., 2021, *ApJ*, 920 ([ADS link](#))
22. THE BLUE SUPERGIANT PROGENITOR OF THE SUPERNOVA IMPOSTER AT 2019KRL
Andrews, J. E., Jencson, J. E., Van Dyk, S. D., Smith, N., Neustadt, J. M. M., Sand, D. J., Kreckel, K., Kochanek, C. S., Valenti, S., Strader, J., Bersten, M. C., Blanc, G. A., **Bostroem, K. A.**, Brink, T. G., Emsellem, E., Filippenko, A. V., Folatelli, G., Kasliwal, M. M., Masci, F. J., McElroy, R., Milisavljevic, D., Santoro, F., Szalai, T., 2021, *ApJ*, 917 ([ADS link](#))

21. THE EXOTIC TYPE IC BROAD-LINED SUPERNOVA SN 2018GEP: BLURRING THE LINE BETWEEN SUPERNOVAE AND FAST OPTICAL TRANSIENTS
Pritchard, T. A., Bensch, K., Modjaz, M., Williamson, M., Thöne, C. C., Vinkó, J., Bianco, F. B., **Bostroem, K. A.**, Burke, J., García-Benito, R., Galbany, L., Hiramatsu, D., Howell, D. A., Izzo, L., Kann, D. A., McCully, C., Pellegrino, C., de Ugarte Postigo, A., Valenti, S., Wang, X., Wheeler, J. C., Xiang, D., Sárneczky, K., Bódi, A., Cseh, B., Tarczay-Nehéz, D., Kriskovics, L., Ordasi, A., Pál, A., Szakáts, R., Vida, K., 2021, ApJ, 915 ([ADS link](#))
20. ENORMOUS EXPLOSION ENERGY OF TYPE IIP SN 2017GMR WITH BIPOLAR ^{56}Ni EJECTA
Utrobin, V. P., Chugai, N. N., Andrews, J. E., Smith, N., Jencson, J., Howell, D. A., Burke, J., Hiramatsu, D., McCully, C., **Bostroem, K. A.**, 2021, MNRAS, 505 ([ADS link](#))
19. STRONG NEAR-INFRARED CARBON ABSORPTION IN THE TRANSITIONAL TYPE IA SN 2015BP
Wyatt, S. D., Sand, D. J., Hsiao, E. Y., Burns, C. R., Valenti, S., **Bostroem, K. A.**, Lundquist, M., Galbany, L., Lu, J., Ashall, C., Diamond, T. R., Filippenko, A. V., Graham, M. L., Hoefflich, P., Kirshner, R. P., Krisciunas, K., Marion, G. H., Morrell, N., Persson, S. E., Phillips, M. M., Stritzinger, M. D., Suntzeff, N. B., Taddia, F., 2021, ApJ, 914 ([ADS link](#))
18. THE ELECTRON-CAPTURE ORIGIN OF SUPERNOVA 2018ZD
Hiramatsu, D., Howell, D. A., Van Dyk, S. D., Goldberg, J. A., Maeda, K., Moriya, T. J., Tominaga, N., Nomoto, K., Hosseinzadeh, G., Arcavi, I., McCully, C., Burke, J., **Bostroem, K. A.**, Valenti, S., Dong, Y., Brown, P. J., Andrews, J. E., Bilinski, C., Williams, G. G., Smith, P. S., Smith, N., Sand, D. J., Anand, G. S., Xu, C., Filippenko, A. V., Bersten, M. C., Folatelli, G., Kelly, P. L., Noguchi, T., Itagaki, K., 2021, NatAs, 5 ([ADS link](#))
17. THE EARLY DISCOVERY OF SN 2017AHN: SIGNATURES OF PERSISTENT INTERACTION IN A FAST-DECLINING TYPE II SUPERNOVA
Tartaglia, L., Sand, D. J., Groh, J. H., Valenti, S., Wyatt, S. D., **Bostroem, K. A.**, Brown, P. J., Yang, S., Burke, J., Chen, T.-W., Davis, S., Förster, F., Galbany, L., Haislip, J., Hiramatsu, D., Hosseinzadeh, G., Howell, D. A., Hsiao, E. Y., Jha, S. W., Kouprianov, V., Kuncarayakti, H., Lyman, J. D., McCully, C., Phillips, M. M., Rau, A., Reichart, D. E., Shahbandeh, M., Strader, J., 2021, ApJ, 907 ([ADS link](#))
16. SUPERNOVA 2018CUF: A TYPE IIP SUPERNOVA WITH A SLOW FALL FROM PLATEAU
Dong, Y., Valenti, S., **Bostroem, K. A.**, Sand, D. J., Andrews, J. E., Galbany, L., Jha, S. W., Eweis, Y., Kwok, L., Hsiao, E. Y., Davis, S., Brown, P. J., Kuncarayakti, H., Maeda, K., Rho, J., Amaro, R. C., Anderson, J. P., Arcavi, I., Burke, J., Dastidar, R., Folatelli, G., Haislip, J., Hiramatsu, D., Hosseinzadeh, G., Howell, D. A., Jencson, J., Kouprianov, V., Lundquist, M., Lyman, J. D., McCully, C., Misra, K., Reichart, D. E., Sánchez, S. F., Smith, N., Wang, X., Wang, L., Wyatt, S., 2021, ApJ, 906 ([ADS link](#))
15. SN 2018GJX REVEALS THAT SOME SNE IBN ARE SNE IIB EXPLODING IN DENSE CIRCUM-
STELLAR MATERIAL
Prentice, S. J., Maguire, K., Boian, I., Groh, J., Anderson, J., Barbarino, C., **Bostroem, K. A.**, Burke, J., Clark, P., Dong, Y., Fraser, M., Galbany, L., Gromadzki, M., Gutiérrez, C. P., Howell, D. A., Hiramatsu, D., Inserra, C., James, P. A., Kankare, E., Kuncarayakti, H., Mazzali, P. A., McCully, C., Müller-Bravo, T. E., Nichol, M., Pellegrino, C., Smartt, S. J., Sollerman, J., Tartaglia, L., Valenti, S., Young, D. R., 2020, MNRAS, 499 ([ADS link](#))

14. SN 2017IVV: TWO YEARS OF EVOLUTION OF A TRANSITIONAL TYPE II SUPERNOVA
Gutiérrez, C. P., Pastorello, A., Jerkstrand, A., Galbany, L., Sullivan, M., Anderson, J. P., Taubenberger, S., Kuncarayakti, H., González-Gaitán, S., Wiseman, P., Inserra, C., Fraser, M., Maguire, K., Smartt, S., Müller-Bravo, T. E., Arcavi, I., Benetti, S., Bersier, D., Bose, S., **Bostroem, K. A.**, Burke, J., Chen, P., Chen, T.-W., Della Valle, M., Dong, S., Gal-Yam, A., Gromadzki, M., Hiramatsu, D., Holoien, T. W.-S., Hosseinzadeh, G., Howell, D. A., Kankare, E., Kochanek, C. S., McCully, C., Nicholl, M., Pignata, G., Prieto, J. L., Shappee, B., Taggart, K., Tomasella, L., Valenti, S., Young, D. R., 2020, MNRAS, 499 ([ADS link](#))
13. THE SLOW DEMISE OF THE LONG-LIVED SN 2005IP
Fox, O. D., Fransson, C., Smith, N., Andrews, J., **Azalee Bostroem, K.**, Brink, T. G., Bradley Cenko, S., Clayton, G. C., Filippenko, A. V., Fong, W.-. fai ., Gallagher, J. S., Kelly, P. L., Kilpatrick, C. D., Mauerhan, J. C., Miller, A. M., Montiel, E., Stritzinger, M. D., Szalai, T., Van Dyk, S. D., 2020, MNRAS, 498 ([ADS link](#))
12. SN 2017GMR: AN ENERGETIC TYPE II-P SUPERNOVA WITH ASYMMETRIES
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, ApJ, 885 ([ADS link](#))
11. THE TYPE II-P SUPERNOVA 2017EAW: FROM EXPLOSION TO THE NEBULAR PHASE
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., Ignác, 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, ApJ, 876 ([ADS link](#))
10. PWV_KPNO: A PYTHON PACKAGE FOR MODELING THE ATMOSPHERIC TRANSMISSION FUNCTION DUE TO PRECIPITABLE WATER VAPOR
Perrefort, D., Wood-Vasey, W. M., **Bostroem, K. A.**, Gilmore, K., Joyce, R., Matheson, T., Corson, C., 2019, PASP, 131 ([ADS link](#))
9. THE ASTROPY PROJECT: BUILDING AN OPEN-SCIENCE PROJECT AND STATUS OF THE v2.0 CORE PACKAGE
Astropy Collaboration, Price-Whelan, A. M., Sipőcz, B. M., Günther, H. M., Lim, P. L., Crawford, S. M., Conseil, S., Shupe, D. L., Craig, M. W., Dencheva, N., Ginsburg, A., VanderPlas, J. T., Bradley, L. D., Pérez-Suárez, D., de Val-Borro, M., Aldcroft, T. L., Cruz, K. L., Robitaille, T. P., Tollerud, E. J., Ardelean, C., Babej, T., Bach, Y. P., Bachetti, M., Bakanov, A. V., Bamford, S. P., Barentsen, G., Barmby, P., Baumbach, A., Berry, K. L., Biscani, F., Boquien, M., **Bostroem, K. A.**, [+108 authors], Astropy Contributors, 2018,

AJ, 156 ([ADS link](#))

8. ULTRAVIOLET DETECTION OF THE BINARY COMPANION TO THE TYPE IIB SN 2001IG
Ryder, S. D., Van Dyk, S. D., Fox, O. D., Zapartas, E., de Mink, S. E., Smith, N., Brunsden, E., **Bostroem, K. A.**, Filippenko, A. V., Shivvers, I., Zheng, W., 2018, ApJ, 856 ([ADS link](#))
7. EARLY BLUE EXCESS FROM THE TYPE IA SUPERNOVA 2017CBV AND IMPLICATIONS FOR ITS PROGENITOR
Hosseinzadeh, G., Sand, D. J., Valenti, S., Brown, P., Howell, D. A., McCully, C., Kasen, D., Arcavi, I., **Bostroem, K. A.**, Tartaglia, L., Hsiao, E. Y., Davis, S., Shahbandeh, M., Stritzinger, M. D., 2017, ApJL, 845 ([ADS link](#))
6. PREDICTING THE PRESENCE OF COMPANIONS FOR STRIPPED-ENVELOPE SUPERNOVAE: THE CASE OF THE BROAD-LINED TYPE IC SN 2002AP
Zapartas, E., de Mink, S. E., Van Dyk, S. D., Fox, O. D., Smith, N., **Bostroem, K. A.**, de Koter, A., Filippenko, A. V., Izzard, R. G., Kelly, P. L., Neijssel, C. J., Renzo, M., Ryder, S., 2017, ApJ, 842 ([ADS link](#))
5. THE R136 STAR CLUSTER DISSECTED WITH HUBBLE SPACE TELESCOPE/STIS. I. FAR-ULTRAVIOLET SPECTROSCOPIC CENSUS AND THE ORIGIN OF HE II $\lambda 1640$ IN YOUNG STAR CLUSTERS
Crowther, P. A., Caballero-Nieves, S. M., **Bostroem, K. A.**, Maíz Apellániz, J., Schneider, F. R. N., Walborn, N. R., Angus, C. R., Brott, I., Bonanos, A., de Koter, A., de Mink, S. E., Evans, C. J., Gräfener, G., Herrero, A., Howarth, I. D., Langer, N., Lennon, D. J., Puls, J., Sana, H., Vink, J. S., 2016, MNRAS, 458 ([ADS link](#))
4. WHAT POWERS THE 3000-DAY LIGHT CURVE OF SN 2006GY?
Fox, O. D., Smith, N., Ammons, S. M., Andrews, J., **Bostroem, K. A.**, Cenko, S. B., Clayton, G. C., Dwek, E., Filippenko, A. V., Gallagher, J. S., Kelly, P. L., Mauerhan, J. C., Miller, A. A., Van Dyk, S. D., 2015, MNRAS, 454 ([ADS link](#))
3. TYPE IA SUPERNOVA RATE MEASUREMENTS TO REDSHIFT 2.5 FROM CANDELS: SEARCHING FOR PROMPT EXPLOSIONS IN THE EARLY UNIVERSE
Rodney, S. A., Riess, A. G., Strolger, L.-G., Dahlen, T., Graur, O., Casertano, S., Dickinson, M. E., Ferguson, H. C., Garnavich, P., Hayden, B., Jha, S. W., Jones, D. O., Kirshner, R. P., Koekemoer, A. M., McCully, C., Mobasher, B., Patel, B., Weiner, B. J., Cenko, S. B., Clubb, K. I., Cooper, M., Filippenko, A. V., Frederiksen, T. F., Hjorth, J., Leibundgut, B., Matheson, T., Nayyeri, H., Penner, K., Trump, J., Silverman, J. M., U, V., **Azalee Bostroem, K.**, Challis, P., Rajan, A., Wolff, S., Faber, S. M., Grogin, N. A., Kocevski, D., 2014, AJ, 148 ([ADS link](#))
2. UNCOVERING THE PUTATIVE B-STAR BINARY COMPANION OF THE SN 1993J PROGENITOR
Fox, O. D., **Azalee Bostroem, K.**, Van Dyk, S. D., Filippenko, A. V., Fransson, C., Matheson, T., Cenko, S. B., Chandra, P., Dwarkadas, V., Li, W., Parker, A. H., Smith, N., 2014, ApJ, 790 ([ADS link](#))
1. ASTROPY: A COMMUNITY PYTHON PACKAGE FOR ASTRONOMY
Astropy Collaboration, Robitaille, T. P., Tollerud, E. J., Greenfield, P., Droettboom, M., Bray, E., Aldcroft, T., Davis, M., Ginsburg, A., Price-Whelan, A. M., Kerzendorf, W. E.,

Conley, A., Crighton, N., Barbary, K., Muna, D., Ferguson, H., Grollier, F., Parikh, M. M., Nair, P. H., Unther, H. M., Deil, C., Woillez, J., Conseil, S., Kramer, R., Turner, J. E. H., Singer, L., Fox, R., Weaver, B. A., Zabalza, V., Edwards, Z. I., **Azalee Bostroem, K.**, Burke, D. J., Casey, A. R., Crawford, S. M., Dencheva, N., Ely, J., Jenness, T., Labrie, K., Lim, P. L., Pierfederici, F., Pontzen, A., Ptak, A., Refsdal, B., Servillat, M., Streicher, O., 2013, A&A, 558 ([ADS link](#))

**Technical
Reports**
([ADS link](#))

24. SUMMARY OF THE COS CYCLE 22 CALIBRATION PROGRAM
Sonnentrucker, P.; Becker, G.; **Bostroem, K. A.**; Debes, J.H.; Ely, J.; Fox, A.; Lockwood, S.; Oliveira, C.; Penton, S.; Proffitt, C.; Roman-Duval, J.; Sahnnow, D.; Sana, H.; Taylor, J.; Welty, A. D.; Wheeler, T., 2016, Tech. rep ([ADS link](#))
23. SUMMARY OF THE COS CYCLE 21 CALIBRATION PROGRAM
Sana, H.; Roman-Duval, J.; Ely, J.; **Bostroem, K. A.**; Lockwood, S.; Oliveira, C.; Penton, S.; Proffitt, C.; Sahnnow, D.; Sonnentrucker, P.; Welty, A. D.; Wheeler, T., 2015, Tech. rep ([ADS link](#))
22. CHANGES TO THE COS EXTRACTION ALGORITHM FOR LIFETIME POSITION 3
Proffitt, C. R.; **Bostroem, K. A.**; Ely, J.; Foster, D.; Hernandez, S.; Hodge, P.; Jedrzejewski, R. I.; Lockwood, S. A.; Massa, D.; Peeples, M. S.; Oliveira, C. M.; Penton, S. V.; Plesha, R.; Roman-Duval, J.; Sana, H.; Sahnnow, D. J.; Sonnentrucker, P.; Taylor, J. M., 2015, Tech. rep ([ADS link](#))
21. SUMMARY OF THE COS CYCLE 20 CALIBRATION PROGRAM
Roman-Duval, J.; Aloisi, A.; **Bostroem, K. A.**; Ely, J.; Holland, S.; Lockwood, S.; Oliveira, C.; Penton, S.; Proffitt, C.; Sahnnow, D.; Sonnentrucker, P.; Welty, A. D.; Wheeler, T., 2015, Tech. rep ([ADS link](#))
20. THE TIME-DEPENDENT SENSITIVITY OF THE MAMA AND CCD LONG-SLIT GRATINGS
Holland, S. T.; Aloisi, A.; **Bostroem, K. A.**; Oliveria, C.; Proffitt, C., 2014, Tech. rep ([ADS link](#))
19. SUMMARY OF THE STIS CYCLE 19 CALIBRATION PROGRAM
Roman-Duval, J.; Ely, J.; Aloisi, A.; Oliveira, C.; Proffitt, C.; Hernandez, S.; Mason, E.; Sonnentrucker, P.; Wolfe, M.; Long, C.; DiFelice, A.; **Bostroem, K. A.**; Holland, S.; Lockwood, S.; Cox, C.; Wheeler, T., 2014, Tech. rep ([ADS link](#))
18. SUMMARY OF THE CYCLE 19 COS CALIBRATION PROGRAM
Roman-Duval, J.; Ely, J.; Oliveira, C.; Proffitt, C.; Aloisi, A.; **Bostroem, K. A.**; Cox, C.; Lockwood, S.; Mason, E.; Massa, D.; Osten, R.; Penton, S.; Sahnnow, D.; Sonnentrucker, P.; Wheeler, T., 2014, Tech. rep ([ADS link](#))
17. UPDATED ABSOLUTE FLUX CALIBRATION OF THE COS FUV MODES
Massa, D.; Ely, J.; Osten, R.; Penton, S.; Aloisi, A.; **Bostroem, K. A.**; Roman-Duval, J.; Proffitt, C. 2014, Tech. rep. ([ADS link](#))
16. SUMMARY OF STIS CYCLE 18 CALIBRATION PROGRAM
Kriss, G. A.; Wolfe, M. A.; Aloisi, A.; **Bostroem, K. A.**; Cox, C.; Dixon, V.; Ely, J.; Long, C.; Mason, E.; Massa, D.; Osten, R.; Proffitt, C.; Roman-Duval, J.; Sonnentrucker, P.; Wheeler, T.; Zheng, W., 2013, Tech. rep. ([ADS link](#))

15. SUMMARY OF RESULTS FROM THE FIRST MOVE TO A NEW COS FUV LIFETIME POSITION
Osten, R. A.; Aloisi, A.; **Bostroem, K. A.**; Debes, J.; Ely, J.; Hodge, P. E.; Kriss, G.; Massa, D.; Oliveira, C.; Osten, R.; Osterman, S. N.; Penton, S. V.; Proffitt, C.; Roman-Duval, J.; Sonnentrucker, P., 2013, Tech. rep. ([ADS link](#))
14. CHARACTERIZATION, MODELING, AND MANAGEMENT OF THE COS FUV DETECTOR LIFETIME
Sahnow, D. J.; Aloisi, A.; **Bostroem, K. A.**; Debes, J.; Ely, J.; Hodge, P. E.; Kriss, G.; Massa, D.; Oliveira, C.; Osten, R.; Osterman, S. N.; Penton, S. V.; Proffitt, C.; Roman-Duval, J.; Sonnentrucker, P., 2013, Proc. of the SPIE, 8859 ([ADS link](#))
13. SUMMARY OF THE COS CYCLE 18 CALIBRATION PROGRAM
Kriss, G. A.; Wolfe, M.; Aloisi, A.; **Bostroem, K. A.**; Cox, C.; Ely, J.; Long, C.; Massa, D.; Oliveria, C.; Osten, R.; Proffitt, C.; Sahnow, D.; Wheeler, T.; Zheng, W., 2013, Tech. rep. ([ADS link](#))
12. SECOND COS FUV LIFETIME POSITION RESULTS FROM THE FOCUS SWEEP ENABLING PROGRAM
Oliveira, C.; **Bostroem, K. A.**; Osterman, S., FENA3 (12796), 2013, Tech. rep. ([ADS link](#))
11. SUMMARY OF THE COS CYCLE 17 CALIBRATION PROGRAM
Osten, R. A.; Wolfe, M.; Ake, T.; Aloisi, A.; **Bostroem, K. A.**; Dixon, W. V. D.; Ghavamian, P.; Goudfrooij, P.; Ely, J.; Massa, D.; Niemi, S.; Oliveira, C.; Osterman, S.; Pascucci, I.; Penton, S.; Proffitt, C.; Sahnow, D.; Wheeler, T.; York, B.; Zheng, W., 2012, Tech. rep. ([ADS link](#))
10. POST-SM4 SENSITIVITY CALIBRATION OF THE STIS ECHELLE MODES
Bostroem, K. A.; Aloisi, A.; Bohlin, R.; Hodge, P.; Proffitt, C., 2012, Tech. rep. ([ADS link](#))
9. THE COS FUV CHANNEL: ON-ORBIT PERFORMANCE TRENDS AND EARLY CHARACTERIZATION OF A NEW DETECTOR LIFETIME POSITION
Sahnow, D. J.; Aloisi, A.; **Bostroem, K. A.**; Debes, J.; Duval, J.; Ely, J.; Hodge, P. E.; Kriss, G.; Lindsay, K.; Massa, D.; Oliveira, C.; Osten, R.; Osterman, S. N.; Penton, S. V.; Proffitt, C.; Sonnentrucker, P.; York, B., 2012, Proc. of the SPIE, 8443 ([ADS link](#))
8. SUMMARY OF THE STIS CYCLE 17 CALIBRATION PROGRAM
Wolfe, M. A.; Osten, R. A.; Hernandez, S.; Aloisi, A.; Bohlin, R.; **Bostroem, K. A.**; Diaz, R.; Dixon, V.; Ely, J.; Hodge, P.; Lennon, D.; Mason, E.; Niemi, S.; Pascucci, I.; Proffitt, C.; Wheeler, T.; Zheng, W., 2012, Tech. rep. ([ADS link](#))
7. GAIN SAG IN THE FUV DETECTOR OF THE COSMIC ORIGINS SPECTROGRAPH
Sahnow, D. J.; Oliveira, C.; Aloisi, A.; Hodge, P. E.; Massa, D.; Osten, R.; Proffitt, C.; **Bostroem, K. A.**; McPhate, J. B.; Béland, S.; Osterman, S. N.; Penton, S. V., 2011, Proc. of the SPIE, 8145 ([ADS link](#))
6. UPDATED RESULTS FROM THE COS SPECTROSCOPIC SENSITIVITY MONITORING PROGRAM
Osten, R. A.; Massa, D.; **Bostroem, K. A.**; Aloisi, A.; Proffitt, C., 2011, Tech. rep. ([ADS link](#))

[link](#))

5. STIS DATA HANDBOOK V. 6.0
Bostroem, K. A. & Proffitt, C. 2011 ([ADS link](#))
4. POST - SM4 FLUX CALIBRATION OF THE STIS ECHELLE MODES
Bostroem, K. A.; Aloisi, A.; Bohlin, R. C.; Proffitt, C. R.; Osten, R. A.; Lennon, D., 2010, HST Calibration Workshop Proceedings ([ADS link](#))
3. TREND OF DARK RATES OF THE COS AND STIS NUV MAMA DETECTORS
Zheng, W.; Proffitt, C. R.; Sahnou, D.; Ake, T. B.; Keyes, C.; Goudfrooij, P.; Hodge, P.; Oliveira, C.; **Bostroem, K. A.**; Long, C.; Aloisi, A., 2010, HST Calibration Workshop Proceedings ([ADS link](#))
2. PERFORMANCE OF THE SPACE TELESCOPE IMAGING SPECTROGRAPH AFTER SM4
Proffitt, C. R.; Aloisi, A.; Bohlin, C.; **Bostroem, K. A.**; Cox, C. R.; Diaz, R. I.; Dixon, W. V.; Goudfrooij, P.; Hodge, P.; Kaiser, M. E.; Lallo, M. D.; Lennon, D.; Niemi, S.; Osten, R. A.; Pascucci, I.; Smith, E.; Wolfe, M. A.; York, B.; Zheng, W.; Gull, T. R.; Lindler, D. J.; Woodgate, B. E., 2010, HST Calibration Workshop Proceedings ([ADS link](#))
1. THE ON-ORBIT PERFORMANCE OF THE COSMIC ORIGINS SPECTROGRAPH
Aloisi, A.; Ake, T.; **Bostroem, K. A.**; Bohlin, R.; Cox, C.; Diaz, R.; Dixon, V.; Ghavamian, P.; Goudfrooij, P.; Hartig, G.; Hodge, P.; Keyes, C.; Kriss, G.; Lallo, M.; Lennon, D.; Massa, D.; Niemi, S.; Oliveira, C.; Osten, R.; Proffitt, C. R.; Sahnou, D.; Smith, E.; Wheeler, T.; Wolfe, M.; York, B.; Zheng, W.; Green, J.; Froning, C.; Beland, S.; Burgh, E.; France, K.; Osterman, S.; Penton, S.; McPhate, J.; Delker, T., 2010, HST Calibration Workshop Proceedings ([ADS link](#))