

MANISHA SHRESTHA

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EDUCATION

University of Denver

Ph.D. in Physics

Dissertation: Polarized bow shocks reveal features of the winds and environments of massive stars

Denver, CO

August 2018

Truman State University

BS in Physics, Minor in Mathematics

Kirksville, MO

Spring 2012

RESEARCH INTERESTS

- Mass loss rate of massive stars
- Core-collapse supernovae
- Gamma-ray bursts physics
- Electro-magnetic counterpart of gravitational wave events, such as kilonova
- r-process element nucleosynthesis

RESEARCH EXPERIENCE

Monash University

Lecturer

Clayton, Australia

September 2025 -

University of Arizona

Postdoctoral Research Assistant

Advisor: Dr. David J. Sand

Tucson, USA

August 2022 - June 2025

Liverpool John Moores University

Postdoctoral Research Assistant

Advisor: Dr. Iain A. Steele.

Liverpool, UK

December 2018 - May 2022

University of Denver

Postdoctoral Research Assistant

Advisor: Dr. Jennifer L. Hoffman.

Denver, CO

Summer 2018 - December 2018

University of Denver

Graduate Research Assistant

Advisor: Dr. Jennifer L. Hoffman.

Denver, CO

Fall 2012 - Summer 2018

Truman State University

Undergraduate Research Assistant

Advisor: Dr. Michael Goggin

Advisor: Dr. Matthew Beaky

Kirksville, MO

2011-2012

2009-2010

AWARDS and HONORS

- Astrophysics Research Institute's Outstanding Citizen Award 2021
- Outstanding student paper, Four Corners Section meeting, Fort Collins 2017
- Teaching Excellence Award, Natural Science and Mathematics, University of Denver 2016-2017
- American Association of Physics Teachers, Outstanding Physics Teaching Assistant 2015
- Outstanding Graduate Teaching Assistant, Department of Physics and Astronomy, University of Denver Winter 2015
- Invited to attend the national Supercomputing conference 2014
- Honorable Mention, poster competition, Rocky Mountain High-Performance Computing Symposium 2014

Publication Summary

A total of 48 refereed publications with 11 first authors published. Total number of citations ~ 979 and h-index of 18.

TEACHING AND MENTORING EXPERIENCE**University of Arizona**

Tucson, AZ

- Mentoring Graduate student via Women in Science & Engineering group 2023-
- Lecture on Gamma-ray burst physics in Pima School 2022

Liverpool John Moores University

Liverpool, UK

- Mentored a graduate student in her summer project 2021

University of Denver

Denver, CO

Graduate Teaching Assistant

21st Century Physics and Astronomy: for non-science majors 2016-2018

21st Century Physics & Astronomy lab 2016 - 2017

- Provide a short lecture before the hands-on part
- Guide students through hands-on astronomy and physics experiments both in the lab and outdoor labs
- Hold office hours and provide support at the help desk
- Grade lab reports, pre-labs, homework, and exams
- Develop new lab experiments to provide observational and data reduction opportunities to students

General Physics: algebra-based physics for science majors

2014-2015

- Taught labs, held office hours and the help desk
- Graded lab reports, pre-labs, homework and exams

Mentored undergraduate students

Denver, CO

- Advised Austin A. Lin in his senior thesis project *Polarization observation of the unresolved bow shock of HD 230561* 2017-2018
- Helped several undergraduate students in Dr Jennifer L. Hoffman's group with Python Programming and physics concepts 2017-2018
- Volunteered as a tutor to help students with hands-on sessions 2020

Kathmandu Astrophysics School 2020

Online

- SOC, lecturer for an online school, gave lectures on polarization observational technique for time-domain astronomy, provided mentorship to students, engaged in student selection process 2020

Kathmandu Astrophysics School 2018

Pokhara, Nepal

- SOC, junior lecturer for an 8-day long summer school, gave lectures on stellar physics, provided mentorship to students, engaged in student selection process 2018

University of Denver SciTech - Camp

Denver, CO

- Ran DU SciTech - Camp for middle school girls along with professors and other graduate students 2016 & 2017

Truman State University

Kirksville, MO

Undergraduate Teaching Assistant

2009-2010

- Graded homework and quizzes for an undergraduate introductory class

Physics Tutor

2009-2012

- Provided group tutoring for undergraduate physics students

Reviewing and Evaluation

- NSF review panel
- Referee for journal: A&A, MNRAS, APJ

- PhD Admission committee member at Astrophysics Research Institute, Liverpool 2021
- HST external review panel
- Liverpool Telescope observing time proposal external review

Selected Telescope time and Grants

- JWST Cycle 3 (PI) *NIR+MIR Spectroscopy of the Nearby Broad Line Type Ic SN 2024abup: r-process, Dust and Explosion Physics*
- Gemini semester 2024b (PI) *Rapid Spectroscopy of Very Young, Nearby Supernovae*
- MMT semester 2023B (PI) *Rapid Follow-up of Very Young Supernovae and Gamma-ray Bursts with MMT/Binospec+MMIRS*
- MMT semester 2023A (PI) *Enabling Rapid Target of Opportunity Observations at the MMT using MMIRS*
- MMT semester 2023A (PI) *Rapid Spectroscopic Follow-up of Very Young Supernovae with MMT+Binospec*
- JWST Cycle 2 (co-I with PI David J. Sand) *Is there enough? Cosmic dust formation in normal core-collapse supernovae in the first 5 years post-explosion*
- LT semester 2020A, 2020B, 2021A, 2021B (PI) *Polarimetry of KIC 8462582 - studying the structure of the surrounding medium.*
- LT semester 2020B, 2021A, 2021B (PI) *A pilot study of bow shock polarization to understand dust properties of local ISM*
- Gemini semester 2016B (co-I with PI Hilding Neilson) *Probe wind structure of classical Cepheids*
- AAS international travel grant (PI) 2018
- Dissertation Fellowship, University of Denver (PI) (\$2500) 2016-2017
- American Astronomical Society FAMOUS travel grant (PI) (\$500) 2016
- Doctoral Fellowship for Inclusive Engagement, University of Denver (PI)(\$3000) 2015-2016
- AAS international travel grant (PI) 2015
- Sigma Xi research grant (\$2495) (PI) 2014
- NSM Dean's Doctoral Fellowship, University of Denver (PI) 2012-2013

SERVICE

- Mentor for Women in Science and Engineering 2023-
- Co-chair of Transient session in EAS 2021
- SOC of Fast and Faint Transients in NAM 2021
- SOC of Going Green in NAM 2021
- PhD admission committee at LJMU 2021
- SOC of Kathmandu Astrophysics School 2020 & 2018
- Tutor for GROWTH Astronomy School 2020

INVITED TALKS (12)

M. Shrestha, "Using multi-messenger observations to connect massive stars to their explosive ends", *Monash University*, Melbourne, Australia, January 30, 2025

M. Shrestha, "Using multimessenger observations to connect massive stars to their explosive ends", *University of Denver*, Denver, USA, April 16, 2025

M. Shrestha, "Leveraging multimessenger observations to connect massive stars to their explosive ends", *University of California, San Diego*, San Diego, USA, June 4, 2025

M. Shrestha, "Fireworks in the sky: A tale of one of the most energetic explosion in our universe", *Saddlebrooke astronomy club*, Tucson, USA, February 16, 2025

M. Shrestha, "A new polarimetric approach to GRB jets and kilonovae emission in the era of gravitational waves", *Astronomy Seminar*, Ohio State University, January 18, 2022

M. Shrestha, "Novel polarimetric technique to constrain the magnetic field structure and strength of Gamma-ray burst jets ", *Astronomy Seminar*, Michigan State University, April 14, 2021

M. Shrestha, “Novel polarimetric technique to constrain the magnetic field structure and strength of Gamma-ray burst jets”, *Astronomy Seminar*, Carnegie Observatories, April 2, 2021

M. Shrestha, “Review on polarimetry on winds of massive stars, interaction with the ISM”, *IAU Symposium 360 Astropol 2020*, Hiroshima, Japan, March 22-26, 2021

M. Shrestha, “Novel polarimetric technique to constrain the magnetic field and geometry of Gamma-ray burst jets”, *Colloquium, Department of Physics and Astronomy*, University of Denver, CO, October 10, 2020

M. Shrestha, “Polarization of stellar wind bow shocks”, *Colloquium, Department of Physics and Astronomy*, Colorado College, CO, May 11, 2018

M. Shrestha, “Polarization study of stellar wind bow shock nebulae to understand the properties of environment of massive stars”, *Colloquium, Department of Physics and Astronomy*, the University of Wyoming, Laramie, CO, March 23, 2018

M. Shrestha, “Polarization Signatures of Stellar Wind Bow Shocks”, *Stars and planets group meeting*, University of Toronto, Toronto, Canada, February 19, 2016

M. Shrestha, “Polarization Signatures of Stellar Bow Shock”, *Colloquium, Department of Physics & Astronomy*, East Tennessee State University, Johnson City, TN, March 16, 2015

CONTRIBUTED TALKS (13)

M. Shrestha, “Extended shock breakout and early circumstellar interaction in very nearby SN 2024ggi”, *American Astronomical Society*, National Harbor, USA, January 14, 2025

M. Shrestha, “A Gold Sample of Young and Nearby Transients from the UV to the NIR”, *Transients From Space*, Baltimore, USA, March 11, 2025

M. Shrestha, “Gamma-ray burst: a tale of one of the most energetic explosion in our universe”, *Pima School*, Tucson, USA, April 29, 2025

M. Shrestha, “Polarization signature showing an elevated and asymmetric mass loss from the progenitor of SN2023ixf prior to the explosion”, *Supernova Remnants III 2024*, Chania, Greece, June 9, 2024

M. Shrestha, “Probing stellar evolution via rapid follow-up of transients in context of SN 2023axu”, *Transient Down Under 2024*, Melbourne, Australia, January 29, 2024

M. Shrestha, “Piecing together the long gamma-ray burst’s progenitor puzzle”, *The Transient and Variable Universe 2023*, Urbana-Champaign, USA, June 22, 2023

M. Shrestha, “Polarized bow shocks reveal features of the winds and environment of massive stars”, *Max Planck Institute of Solar Research*, Gottingen, Germany, April 26, 2018

M. Shrestha, “Polarized bow shocks reveal features of the winds and environments of massive stars”, *231st Meeting of the AAS*, Washington DC, January 2018

M. Shrestha, “Polarization Behavior of Stellar Wind Bow Shocks”, *Annual Meeting of the APS Four Corners Section*, Colorado State University, CO, October 2017

M. Shrestha, “Understanding the Relation of Progenitors and Supernovae Through the Study of Circumstellar Materials”, *Annual Meeting of the APS Four Corners Section*, University of Denver, CO, October 2013
M. Shrestha, and M. M. Beaky, “Identifying Delta Scuti Variable in Eclipsing Binaries.”, *Student Research Conference*, Truman State University, MO, April 2012

M. Shrestha, and M. Goggin, “Down Conversion in Biaxial Crystal”, *Student Research Conference*, Truman State University, MO, April 2012

M. Shrestha, and M. M. Goggin, “Down Conversion in Biaxial Crystal”, *National Conference of Undergraduate Research (NCUR)*, Weber State University, UT, March 2012

M. Shrestha, and M. M. Beaky, “Identifying Delta Scuti Variable in Eclipsing Binaries.”, *TruSymposium*, Truman State University, MO, August 2011

Interviews and public talks

- Space draft talk SPACE DRAFT, February 20, 2024
- Public talk STEWARD’S 100-YEAR ANNIVERSARY OF THE DOME OPEN HOUSE, April 22, 2022
- Two interviews for local Arizona National Public Radio on GRB 221009A
- Press release on GRB 221009A by University of Arizona

TECHNICAL SKILLS

Programming Experience

- GitHub
- Monte Carlo Radiative Transfer method
- Programming Languages: Fortran 90, Python, IDL, Mathematica, Gnuplot, Latex, Bash, IRAF, SQL
- Experience using supercomputer Stampede, and high-performance computer clusters at the University of Denver and Liverpool John Moores University

PROFESSIONAL AFFILIATIONS

- Member, American Astronomical Society (2023-)
- Member, Royal Astronomical Society (2021-)
- Member, European Astronomical Society (2021-)

Details for references

1. Name: Prof. David J. Sand
Institution: The University of Arizona
Email address: dsand@arizona.edu
2. Name: Prof. Iain A. Steele
Institution: Liverpool John Moores University
Email address: i.a.steele@ljmu.ac.uk
3. Name: Prof. Jennifer L. Hoffman
Institution: University of Denver
Email address: Jennifer.hoffman@du.edu

PUBLICATIONS

First Author

1. *Spectropolarimetry of SN 2023ixf reveals both circumstellar material and helium core to be aspherical*
Shrestha, M., DeSoto, S., Sand D.J., Williams, G.G., Hoffman, J.L., et al., 2025, ApJL, 982, L32 ([ADS link](#))
2. *Extended Shock Breakout and Early Circumstellar Interaction in SN 2024ggi*
Shrestha, M., Bostroem K. Azalee, Sand David J., Hosseinzadeh Griffin, Andrews Jennifer E., Dong Yize, Hoang Emily, et al., 2024, ApJL, 972, L15 ([ADS link](#))
3. *Impact of jets on kilonova photometric and polarimetric emission from binary neutron star mergers*
Shrestha, M., Bulla, M., Nativi, L., Markin, I., Rosswog, S., Dietrich, T., 2023, MNRAS, 523 ([ADS link](#))

4. *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., et al., 2024, ApJ, 961 ([ADS link](#))
5. *GRB 210619B: First Gamma-Ray Burst Detection by the Novel Polarimeter MOPTOP*
Shrestha, M., Steele, I. A., Kobayashi, S., Smith, R. J., Jermak, H., Piascik, A., Mundell, C. G., 2023, RNAAS, 7 ([ADS link](#))
6. *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](#))
7. *Polarimetry and photometry of gamma-ray bursts afterglows with RINGO3*
Shrestha, M., Steele, I. A., Kobayashi, S., Smith, R. J., Guidorzi, C., Jordana-Mitjans, N., Jermak, H., Arnold, D., Mundell, C. G., Gomboc, A., 2022, MNRAS, 516 ([ADS link](#))
8. *GRB 191016A: a highly collimated gamma-ray burst jet with magnetized energy injection*
Shrestha, M., Steele, I. A., Kobayashi, S., Jordana-Mitjans, N., Smith, R. J., Jermak, H., Arnold, D., Mundell, C. G., Gomboc, A., Guidorzi, C., 2022, MNRAS, 509 ([ADS link](#))
9. *Polarization simulations of stellar wind bow shock nebulae - II. The case of dust scattering*
Shrestha, M., Neilson, H. R., Hoffman, J. L., Ignace, R., Fullard, A. G., 2021, MNRAS, 500 ([ADS link](#))
10. *Characterization of a dual-beam, dual-camera optical imaging polarimeter**
Shrestha, M., Steele, I. A., Piascik, A. S., Jermak, H., Smith, R. J., Copperwheat, C. M., 2020, MNRAS, 494 ([ADS link](#))
11. *Polarization simulations of stellar wind bow-shock nebulae - I. The case of electron scattering*
Shrestha, M., Neilson, H. R., Hoffman, J. L., Ignace, R., 2018, MNRAS, 477 ([ADS link](#))

Co-author

1. *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](#))
2. *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](#))

3. *Testing particle acceleration in blazar jets with continuous high-cadence optical polarization observations*
 Liodakis, I., Kiehlmann, S., Marscher, A. P., Zhang, H., Blinov, D., Jorstad, S. G., Agudo, I., Benítez, E., Berdyugin, A., Bonnoli, G., Casadio, C., Chen, C.-T., Chen, W.-P., Ehlert, S. R., Escudero, J., Grishina, T. S., Hiriart, D., Hsu, A., Imazawa, R., Jermak, H. E., Jose, J., Kaaret, P., Kopatskaya, E. N., Lalchand, B., Larionova, E. G., Lindfors, E., López, J. M., McCall, C., Morozova, D. A., Palaiologou, E., Pandey, S., Poutanen, J., Rakshit, S., Reig, P., Sasada, M., Savchenko, S. S., Shablovinskaya, E., Neha, S., **Shrestha**, M., Steele, I. A., Troitskiy, I. S., Troitskaya, Y. V., Uemura, M., Vasilyev, A. A., Weaver, Z., Wiersema, K., Weisskopf, M. C., 2024, *A&A*, 689 ([ADS link](#))
4. *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., 2024, *arXiv*, ([ADS link](#))
5. *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](#))
6. *The Long-lived Broadband Afterglow of Short Gamma-Ray Burst 231117A and the Growing Radio-Detected Short GRB Population*
 Schroeder, G., Fong, W.-fai, Kilpatrick, C. D., Rouco Escorial, A., Laskar, T., Nugent, A. E., Rastinejad, J., Alexander, K. D., Berger, E., Brink, T. G., Chornock, R., de Bom, C. R., Dong, Y., Eftekhari, T., Filippenko, A. V., Fuentes-Carvajal, C., Jacobson-Galan, W. V., Malkan, M., Margutti, R., Pearson, J., Rhodes, L., Salinas, R., Sand, D. J., Santana-Silva, L., Santos, A., Sears, H., **Shrestha**, M., Smith, N., Webb, W., de Wet, S., Yang, Y., 2024, *arXiv*, ([ADS link](#))
7. *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., Howell, D. A., Smith, N., Farah, J., Hiramatsu, D., Itagaki, K., McCully, C., Newsome, M., Padilla Gonzalez, E., Paraskeva, E. N., Pellegrino, C., Terreran, G., Haislip, J., Kouprianov, V., Reichart, D. E., 2024, *arXiv*, ([ADS link](#))
8. *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., Barnabas, 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., Hambusch, F.-J., Hosseinzadeh, G., Howell, D. A., Hughes, J. P., Kerzendorf, W. E., 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., de Jaeger, T., Lu, J., Maund, J., Medler, K., Morell, N., Shappee, B. J., Stritzinger, M., Suntzeff, N., Tucker, M., Wang, L., 2024, *ApJ*, 966 ([ADS link](#))
9. *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](#))
10. *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](#))
 11. *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](#))
 12. *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](#))
 13. *JWST NIRSpec+MIRI Observations of the nearby Type IIP supernova 2022acko*
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 14. *MAGIC detection of GRB 201216C at $z = 1.1$*
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