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Georgios Dimitriadis

Summary of Research Interests

I work on Transient Astronomy, with a specific interest in:

- Type Ia supernovae explosion physics and progenitor systems
- Optical and Near Infrared spectroscopy
- Weird thermonuclear transient populations
- Transient surveys design and operations

Work Experience

2025 – Present **Marie Skłodowska-Curie Fellow**, *Physics Department, Observational Astrophysics, Lancaster University*, Lancaster, United Kingdom

2024 – 2025 **Senior Research Associate in Supernova Cosmology**, *Physics Department, Observational Astrophysics, Lancaster University*, Lancaster, United Kingdom

2021 – 2024 **SUPERSTARS Postdoctoral Research Fellow**, *School of Physics, Department of Astrophysics and Space Physics, Trinity College Dublin*, Dublin, Ireland

2017 – 2021 **Postdoctoral Research Scholar**, *Department of Astronomy and Astrophysics, University of California, Santa Cruz*, Santa Cruz, CA, USA

Education

2013 – 2017 **PhD in Astronomy**, *University of Southampton*, Southampton, United Kingdom
Thesis: Observational Constraints on the Progenitors of Type Ia Supernovae, supervised by Prof. Mark Sullivan.

2011 – 2013 **MSc in Physics and Astronomy**, *Anton Pannekoek Institute for Astronomy*, Amsterdam, The Netherlands
Dissertation: Early X-ray emission from Type Ia supernovae originating from symbiotic progenitors or recurrent novae, supervised by Dr. Jacco Vink.

2004 – 2011 **Bachelor in Physics**, *Aristotle University*, Thessaloniki, Greece
Specialisation: Computational Physics; Dissertation: Computational Studies on Neutron Star structures, supervised by Dr. Charalambos Moustakidis.

Fellowships, Grants and Awards

June 2025 – Present **Marie Skłodowska-Curie European Postdoctoral Fellowship**, *Physics Department, Observational Astrophysics, Lancaster University, Lancaster, UK*, HORIZON-MSCA-2024-PF-01-01, Value: €260,340
SN-DIVE: Mapping the diversity of Type Ia supernovae explosions

Collaborations

2025 – Present **LS4**, *La Silla Schmidt Southern Survey*, Northwestern University, Lawrence Berkeley National Laboratory, University of California–Berkeley, Lancaster University, IN2P3, Trinity College Dublin, University of Southampton and others

2024 – Present **4MOST**, *Time-Domain Extragalactic Survey (TiDES)*, 4MOST Consortium, Trinity College Dublin, University of Southampton, Lancaster University and others

2021 – Present **ZTF**, *The Zwicky Transient Facility*, Caltech, Weizmann Institute of Science, IN2P3, Trinity College Dublin and others

2017 – Present **YSE**, *The Young Supernovae Experiment*, University of California Santa Cruz, DARK Cosmology Centre, University of Illinois and others

2017 – Present **KEGS**, *Kepler Extra-Galactic Survey*, Space Telescope Science Institute and others

2017 – Present **1M2H**, *One-Meter Two-Hemisphere*, University of California Santa Cruz and others

2013 – Present **(e)PESSTO(+)**, *Public ESO Spectroscopic Survey of Transient Objects*, ESO

Conferences – Workshops – Academic Presentations

November 2025 **IAASARS Seminar**, *National Observatory of Athens*, Athens, Greece
INVITED TALK: The Next Generation of Time-Domain Surveys: Type Ia Supernovae from ZTF to LSST and Beyond

June 2025 **17th Hellenic Astronomical Conference**, *Conference & Cultural Center of the University of Patras*, Patras, Greece
CONTRIBUTED TALK: The diversity in the thermonuclear SN population as observed from ZTF

April 2025 **An Extraordinary Journey Into The Transient Sky**, *Palazzo della Salute*, Padova, Italy
CONTRIBUTED TALK: The diversity in the thermonuclear SN population as observed from ZTF

November 2024 **Third meeting on Progress in Astrophysics with Type Ia Supernovae (PATIAS-3)**, *The Royal Astronomical Society, Burlington House*, London, United Kingdom
CONTRIBUTED TALK: The diversity in the thermonuclear SN population as observed from ZTF

April 2024 **Armagh Observatory Seminar**, *Armagh Observatory*, Armagh, United Kingdom
INVITED TALK: The increasing diversity in the thermonuclear supernovae population

December 2023 **IAASARS Seminar**, *National Observatory of Athens*, Athens, Greece
INVITED TALK: The increasing diversity in the thermonuclear supernovae population

July 2023 **Royal Astronomical Society National Astronomy Meeting 2023**, *Cardiff University*, Cardiff, United Kingdom
SESSION ORGANISER: Explosive and high energy transients: A new era of discovery

June 2023 **16$^{\text{th}}$ Hellenic Astronomical Conference**, *National and Kapodistrian University of Athens*, Athens, Greece
CONTRIBUTED TALK: The mass puzzle of "Super-Chandrasekhar" SNe Ia

June 2023 **TESS Mission Update Meeting 2023**, *Massachusetts Institute of Technology*, Cambridge, MA, USA
CONTRIBUTED TALK: SN 2021zny: A Super-Chandra SN Ia observed by TESS

September 2019 **The extragalactic explosive Universe: the new era of transient surveys and data-driven discovery**, *ESO-HQ*, Garching near Munich, Germany
CONTRIBUTED TALK: Insights on the progenitor system of SNe Ia from the Kepler-K2 SN Ia sample

June 2019 **The Supernova Continuum: Filling in the Transient Gaps**, *European Week of Astronomy and Space Science 2019*, Lyon, France
INVITED TALK: The increasing diversity in the thermonuclear SN population

March 2019 **Extragalactic Astronomy with Kepler**, *Kepler and K2 Science Conference V*, Glendale, Los Angeles, CA, USA
CONTRIBUTED TALK: Nebular phase studies of SN 2018oh

January 2019 **First Results from the Kepler/K2 Supernova Experiment**, *233rd Meeting of the American Astronomical Society*, Seattle, WA, USA
CONTRIBUTED TALK: K2 Observations of SN 2018oh Reveal a Two-Component Rising Light Curve for a Type Ia Supernova

August 2016 **The Supernovae Through the Ages Conference**, *Millennium Institute of Astrophysics*, Easter Island, Chile
POSTER: The Late-time light curve of SN 2011fe

February 2015 **Colloquium**, *Aristotle University*, Thessalloniki, Greece
INVITED TALK: The progenitor problem of Type Ia Supernovae

Observing Experience

April 2021 – Present **SPRAT/IO:O**, *Liverpool Telescope*, Observatorio del Roque de los Muchachos

September 2018 – Present **GMOS**, *Gemini Telescope*, Gemini Observatory

September 2017 – July 2023 **Goodman**, *Southern Astrophysical Research Telescope (SOAR)*, Cerro Tololo Inter-American Observatory (CTIO)

September 2017 – April 2021 **LRIS/MOSFIRE**, *Keck Telescopes*, W. M. Keck Observatory

September 2017 – Present **KAST**, *Shane Telescope*, Lick Observatory

November 2014 – Present **EFOSC2/SOFI**, *New Technology Telescope*, La Silla Observatory

Observing Time Awarded

I have been awarded a total of 176.5 hours of observing time as a Principal Investigator and several more as a co- investigator, on a variety of both ground- and space-based telescopes/instruments, including the Liverpool Telescope (302.4h from 2020 till today), the 3-m Shane Telescope (206 nights from 2018 till today), the 8.1-m Gemini Telescopes (17 approved programs from 2018 till today), the Keck Telescopes (Foundation Supernova Survey), the Very Large Telescope (24.3h in service and RRM/ToO modes) and the Hubble Space Telescope (215 orbits from 2018 till today). I also have significant observing experience in observatories in Chile and USA (36 and 80 nights respectively).

As Principal Investigator

July 2025 – present **SPRAT/IO:O**, *Liverpool Telescope*, Observatorio del Roque de los Muchachos, 15h
Early spectroscopic classifications of LS4 transients with the LT

July 2025 – present **SPRAT/IO:O**, *Liverpool Telescope*, Observatorio del Roque de los Muchachos, 27h
Observing white dwarf mergers with the LT

October 2023 – September 2024 **XSHOOTER**, *VLT/UT3*, Cerro Paranal Observatory, ESO, 18.2h
Searching for Hydrogen and Helium in late-time 'transitional' SNe Ia spectra

January 2022 – September 2024 **SPRAT/IO:O**, *Liverpool Telescope*, Observatorio del Roque de los Muchachos, 56.3h
"Super-Chandrasekhar" and SNe Ia-CSM observations with the LT

January 2021 – July 2023 **Goodman**, *SOAR*, CTIO, 60h per semester
Young Supernova Experiment (long-term)

Professional Skills

Long Slit Spectroscopy

- NTT/EFOSC2 (optical)
- NTT/SOFI (NIR)
- Shane/KAST (optical)
- Keck/LRIS (optical)
- Keck/MOSFIRE (NIR)
- LCO/FLOYDS (optical)
- SOAR/Goodman (optical)
- Gemini/GMOS (optical)
- LT/SPRAT (optical)
- VLT/XSHOOTER (optical/NIR)
- GTC/OSIRIS (optical)

Multi-Object Slit Spectroscopy

- SOAR/Goodman (optical)

Photometry

- PTF (optical)
- EFOSC2 (optical)
- SOFI (NIR)
- LCOGT (optical)
- HST (optical,NIR)
- IO:O (optical)

Professional Service

Member of the Astronomical Society of Ireland, the Hellenic Astronomical Society and the European Astronomical Society.

2023 – 2024 **Seminar Organiser**, *TCD Astrophysics Department Talks*, Trinity College Dublin

2022 – Present **Co-lead**, *ZTF Cosmology with SN Ia, gravitational lensing and SN Ia physics Working Group (101 members)*, ZTF
I hold builder status on studies of the WG. I am responsible in organising and moderating the weekly meetings of the WG.

2019 – 2021 **Seminar Organiser**, *Friday Lunch time Astrophysics Seminar (FLASH)*, UC Santa Cruz

2016 – Present **Referee**, *Astrophysical Journal, Astrophysical Journal Letters, Monthly Notices of the Royal Astronomical Society, Astronomy & Astrophysics*

Teaching - Mentoring

October 2025 – Present **Supervisor**, *Physics Department, Observational Astrophysics, Lancaster University*, Lancaster, United Kingdom
PHYS450: Year 4 Physics Project – I am supervising an undergrad student (Scott Bond) for his MPhys research project.

January 2022 – April 2024 **Instructor**, *School of Physics, Department of Astrophysics and Space Physics, Trinity College Dublin*, Dublin, Ireland
Introduction to Physics, Computational Lab

October 2021 – April 2024 **Supervisor**, *School of Physics, Department of Astrophysics and Space Physics, Trinity College Dublin*, Dublin, Ireland
Undergraduate research projects – I have supervised 4 undergrad students: Ciarán Furey obtained a MSc degree from University of Amsterdam, Anton Pannekoek Institute for Astronomy, Zoë McGrath obtained a MSc degree from University of Amsterdam, Anton Pannekoek Institute for Astronomy and currently doing a PhD in Astrophysics at Liverpool John Moores University, Natasha Payet obtained a MSc in Astronomy at Universitè Toulouse III – Paul Sabatier, and Grellan Lambert is currently doing a MSc in Planetary Geosciences with a scholarship at the GeoPlaNet Erasmus Mundus Joint Master programme.

September 2017 – March 2021 **Supervisor/Mentor**, *Department of Astronomy and Astrophysics, University of California, Santa Cruz*, Santa Cruz, USA
I have supervised one undergrad student (Wynn Jacobson-Galán) who is currently a NASA Hubble Postdoctoral Fellow in the California Institute of Technology (Caltech) and mentored a grad student (Matthew Siebert) who is currently a STScI fellow at the Space Telescope Science Institute, Baltimore, Maryland, USA. I have given 3 seminars on introductory transient astrophysics topics for the Transient Lunch meeting in UC Santa Cruz.

September 2013 – September 2014 **Mayflower Studentship**, *University of Southampton*, Southampton, United Kingdom
During the first year of my PhD I have been funded by the Mayflower Scholarship. The scholarship required to spend 25% of my time on teaching assistant duties. My responsibilities included:
- **Demonstrating**: Wave Physics and Classical Mechanics (second year modules). I have been an assistant on the module's problems class.
- **Tutoring**: As a Mayflower student, I was the link between the students, the other demonstrators and the lecturer, for solving possible problems.
- **Marking**: Wave Physics and Classical Mechanics (second year modules). I was the marker of the first part of the final year exam.

Outreach – Public Engagement

2017 – 2019 **Giving Day 2017/2018/2019**, *UC Santa Cruz*, Santa Cruz, USA
I participated in outreach events to raise money for funding undergraduate students to participate in photometric observations of gravitational waves electromagnetic counterpart candidatess.

March 2016 **Outreach**, *4th Elementary School*, Xanthi, Greece
TALK: I gave a public engagement talk to 6-12 year-old students.

November 2015 **2015 STAG public lecture by Physics Nobel Laureate Brian Schmidt**, *University of Southampton*, Southampton, United Kingdom
POSTER: 'Explosions in the Sky: Supernovae Type Ia'

Languages

Native Greek
Fluent English

Computer Skills

Advanced PYTHON, IDL, IRAF/PYRAF, Github, LaTeX
Intermediate FORTRAN

Publications

I have written or contributed to 96 refereed publications, including 7 first-author publications for which my PhD supervisor was co-author in only one. I have also contributed to and am a co-author on 4 Nature publications. My total number of citations are 9,592 (including 3,897 from the first GW-EM kilonova detection paper). My h-index is 35, based on the Astrophysics Data System (ADS) statistics. My full publication list can be found in this link.

First author

[1] **ZTF SN Ia DR2: The diversity and relative rates of the thermonuclear SN population**, *Dimitriadis, G. et al. (30 other coauthors)*, Astronomy & Astrophysics, Volume 694, id.A10, 19 pp., February 2025, 27 citations.
– Performed a large-scale statistical study of the ZTF SN Ia DR2 sample, presenting spectroscopic classifications alongside photometric properties, host-galaxy characteristics, and subclass fractions.

[2] **SN 2021zny: an early flux excess combined with late-time oxygen emission suggests a double white dwarf merger event**, *Dimitriadis, G. et al. (30 other coauthors)*, MNRAS, 521(1):1162–1183, May 2023, 34 citations.
– Provided strong observational evidence that the 03fg-like SN 2021zny originated from a double white-dwarf merger, based on a short-lived blue flash shortly after explosion and late-time oxygen emission.

[3] **A Carbon/Oxygen-dominated Atmosphere Days after Explosion for the "Super-Chandrasekhar" Type Ia SN 2020esm**, *Dimitriadis, G. et al. (20 other coauthors)*, APJ, 927(1):78, March 2022, 30 citations.
– Showed that the 03fg-like SN 2020esm exhibited a nearly pure carbon–oxygen atmosphere during the first days after explosion, consistent with the merger of two carbon–oxygen white dwarfs.

[4] **Nebular Spectroscopy of Kepler's Brightest Supernova**, *Dimitriadis, G. et al. (11 other coauthors)*, APJ, 870:L14, January 2019, 32 citations.
– Estimated stringent upper limits on the amount of hydrogen and helium stripped from a companion star by the explosion of SN 2018oh, an event exhibiting a prominent early flux excess.

[5] **K2 Observations of SN 2018oh Reveal a Two-component Rising Light Curve for a Type Ia Supernova**, *Dimitriadis, G. et al. (150 other coauthors)*, APJ, 870:L1, January 2019, 115 citations.
– Presented a high-cadence (30-min) light curve with the earliest detection (3.6 h after explosion) of a blue flux excess, as predicted by some SN Ia progenitor scenarios.

[6] **The late-time light curve of the Type Ia supernova SN 2011fe**, *Dimitriadis, G. et al. (12 other coauthors)*, MNRAS, 468:3798–3812, July 2017, 48 citations.
– Analysed extremely late-time observations of the well-studied SN Ia 2011fe, demonstrating the presence of radioactive ^{57}Ni and constraining its progenitor system.

[7] **Early X-ray emission from Type Ia supernovae originating from symbiotic progenitors or recurrent novae**, *Dimitriadis, G. et al. (2 other coauthors)*, MNRAS, 443:1370–1380, September 2014, 14 citations.
– (Master's Dissertation) Explained the absence of X-ray emission in SNe Ia using numerical hydrodynamical simulations of recurrent nova eruptions prior to the terminal supernova explosion and the subsequent interaction with the surrounding medium.

Full Publication List

[1] C. Barjou-Delayre, P. Rosnet, C. Ravoux, M. Aubert, M. Ginolin, R. Kebadian, M. Amenouche, J. Bautista, U. Burgaz, B. Carreres, J. Castaneda Jaimes, **G. Dimitriadis**, F. Feinstein, D. Fouchez, L. Galbany, C. Ganot, M. Graham, S. L. Groom, A. Goobar, J. Johansson, M. M. Kasliwal, Y-L. Kim, T. E. Müller-Bravo, B. Popovic, B. Racine, N. Regnault, N. Rehemtulla, M. Rigault, R. L. Riddle, J. Sollerman, A. Townsend, and A. Trigui. Study of the anisotropy of cosmic expansion on ZTF type Ia supernovae simulations. *arXiv e-prints*, page arXiv:2601.11139, January 2026.

[2] Daniel A. Perley, Anna Y. Q. Ho, Zoë McGrath, Michael Camilo, Cassie Sevilla, Ping Chen, Genevieve

Schroeder, Taya Govreen-Segal, Aleksandra Bochenek, Yu-Jing Qin, James H. Gillanders, Benjamin Amend, Joseph P. Anderson, Igor Andreoni, Amar Aryan, Eric C. Bellm, Joshua S. Bloom, Thomas de Boer, Jonathan Carney, Ilaria Caiazzo, Ken C. Chambers, Panos Charalampopoulos, Ting-Wan Chen, Tracy X. Chen, Eric R. Coughlin, Michael Coughlin, Michel Dennefeld, **Georgios Dimitriadis**, Christoffer Fremling, Danielle Frostig, Avishay Gal-Yam, Lluís Galbany, Anjashay Gangopadhyay, Melzie Ghendrih, Matthew J. Graham, Mariusz Gromadzki, Steven L. Groom, Claudia P. Gutiérrez, K.-Ryan Hinds, Mark E. Huber, Cosimo Inserra, Benjamin C. Kaiser, Mansi M. Kasliwal, Niilo E. Koivisto, Chien-Cheng Lin, Chang Liu, Thomas B. Lowe, Eugene Magnier, Ashish A. Mahabal, Andrew Milligan, Paloma Minguez, Geoffrey Mo, Tomás E. Müller-Bravo, Matt Nicholl, Priscila J. Pessi, Giuliano Pignata, Josiah Purdum, Nabeel Rehemtulla, R. Michael Rich, Anwesha Sahu, Avinash Singh, Stephen J. Smartt, Jesper Sollerman, Gokul Srinivasaragavan, Shubham Srivastav, Robert D. Stein, Steve Schulze, Jack W. Tweddle, Richard Wainscoat, Jacob L. Wise, Lin Yan, and David R. Young. AT2024wpp: An Extremely Luminous Fast Ultraviolet Transient Powered by Accretion onto a Black Hole. *arXiv e-prints*, page arXiv:2601.03337, January 2026.

[3] U. Burgaz, K. Maguire, L. Galbany, M. Rigault, Y.-L. Kim, J. Sollerman, T. E. Müller-Bravo, M. Ginolin, M. Smith, **G. Dimitriadis**, J. Johansson, A. Goobar, J. Nordin, P. E. Nugent, J. H. Terwel, A. Townsend, R. Dekany, M. J. Graham, S. L. Groom, N. Rehemtulla, and A. Wold. ZTF SN Ia DR2 follow-up: Exploring the origin of the Type Ia supernova host galaxy step through Si II velocities. *A&A*, 705:A76, January 2026.

[4] Alaa Alburai, Lluís Galbany, Umut Burgaz, **Georgios Dimitriadis**, Joel Johansson, Mat Smith, Ramon Sanfeliu, Sandra Guerra, Tomás Müller-Bravo, Ariel Goobar, Suhail Dhawan, Young-Lo Kim, Jakob Nordin, Alice Townsend, Jesper Sollerman, Madeleine Ginolin, Mickael Rigault, Jacco H. Terwel, Roger Smith, Avery Wold, Tracy X. Chen, and Theophile Jegou du Laz. ZTF SN Ia DR2 follow-up: Characterization of subluminous Type Ia supernovae in the ZTF DR2 full sample. *arXiv e-prints*, page arXiv:2512.21256, December 2025.

[5] C. Ganot, Y. Copin, M. Rigault, **G. Dimitriadis**, A. Goobar, K. Maguire, J. Nordin, M. Smith, G. Aldering, C. Barjou-Delayre, M. Betoule, J. S. Bloom, U. Burgaz, L. Galbany, M. Ginolin, M. Graham, D. Hale, J. Johansson, M. M. Kasliwal, Y.-L. Kim, F. J. Masci, T. E. Müller-Bravo, S. Perlmutter, B. Popovic, J. N. Purdum, B. Rusholme, J. Sollerman, J. H. Terwel, and A. Townsend. ZTF-SEDm Type Ia supernova sample for Twins Embedding spectrophotometric standardisation. *arXiv e-prints*, page arXiv:2512.07696, December 2025.

[6] K. Tsalapatas, J. Sollerman, R. Chiba, E. Kool, J. Johansson, S. Rosswog, S. Schulze, T. J. Moriya, I. Andreoni, T. G. Brink, T. X. Chen, S. Covarrubias, K. De, **G. Dimitriadis**, A. V. Filippenko, C. Fremling, A. Gangopadhyay, K. Maguire, G. Mo, Y. Sharma, N. Sravan, J. H. Terwel, and Y. Yang. A thermonuclear supernova interacting with hydrogen- and helium-deficient circumstellar material: SN 2020aeuh as a SN Ia-CSM-C/O? *A&A*, 704:A135, December 2025.

[7] L. Izzo, C. Gall, N. Khetan, N. Earl, J. Hjorth, W. B. Hoogendam, Y. Q. Ni, A. Sedgewick, S. M. Ward, Y. Zenati, K. Auchettl, S. Bhattacharjee, S. Benetti, M. Branchesi, E. Cappellaro, A. Catapano, K. C. Chambers, D. A. Coulter, K. W. Davis, M. Della Valle, S. Dhawan, T. de Boer, **G. Dimitriadis**, R. J. Foley, M. Fulton, H. Gao, W. J. Hon, M. E. Huber, D. O. Jones, C. D. Kilpatrick, C. C. Lin, T. B. Lowe, E. A. Magnier, K. S. Mandel, R. Margutti, G. Narayan, P. Ochner, Y. C. Pan, A. Reguitti, C. Rojas-Bravo, M. Siebert, S. J. Smartt, K. W. Smith, S. Srivastav, J. J. Swift, K. Taggart, G. Terreran, S. Thorp, L. Tomasella, and R. J. Wainscoat. Normal or transitional? The evolution and properties of two type Ia supernovae in the Virgo cluster. *arXiv e-prints*, page arXiv:2512.00555, November 2025.

[8] D. Farias, C. Gall, V. A. Villar, K. Auchettl, K. M. de Soto, A. Gagliano, W. B. Hoogendam, G. Narayan, A. Sedgewick, S. K. Yadavalli, Y. Zenati, C. R. Angus, K. W. Davis, J. Hjorth, W. V. Jacobson-Galán, D. O. Jones, C. D. Kilpatrick, M. J. Bustamante Rosell, D. A. Coulter, **G. Dimitriadis**, R. J. Foley, A. Gangopadhyay, H. Gao, M. E. Huber, L. Izzo, J. L. Johnson, A. L. Piro,

A. Rest, C. Rojas-Bravo, M. R. Siebert, K. Taggart, and S. Tinyanont. Characterization of type Ibn SNe. *arXiv e-prints*, page arXiv:2511.12362, November 2025.

[9] A. Milligan, I. Hook, C. Frohmaier, M. Smith, **G. Dimitriadis**, Y. L. Kim, K. Maguire, A. Möller, M. Nicholl, S. J. Smartt, J. Storm, M. Sullivan, E. Tempel, P. Wiseman, L. P. Cassarà, R. Demarco, A. Fritz, and J. Jiang. Testing and combining transient spectral classification tools on 4MOST-like blended spectra. *MNRAS*, 543(1):247–272, October 2025.

[10] C. Frohmaier, M. Vincenzi, M. Sullivan, S. F. Hönig, M. Smith, H. Addison, T. Collett, **G. Dimitriadis**, R. S. Ellis, P. Gandhi, O. Graur, I. Hook, L. Kelsey, Y. L. Kim, C. Lidman, K. Maguire, L. Makrygianni, B. Martin, A. Möller, R. C. Nichol, M. Nicholl, P. Schady, B. D. Simmons, S. J. Smartt, E. Tempel, P. Wiseman, and the LSST Dark Energy Science Collaboration. TiDES: The 4MOST Time Domain Extragalactic Survey. *APJ*, 992(1):158, October 2025.

[11] Yossef Zenati, Qinan Wang, Alexey Bobrick, Lindsay DeMarchi, Hila Glanz, Mor Rozner, Jacob E. Jencson, Armin Rest, Brian D. Metzger, Raffaella Margutti, Sebastian Gomez, Nathan Smith, Silvia Toonen, Joe S. Bright, Colin Norman, Ryan J. Foley, Alexander Gagliano, Julian H. Krolik, Stephen J. Smartt, Ashley V. Villar, Gautham Narayan, Ori Fox, Katie Auchettl, Daniel Brethauer, Alejandro Clocchiatti, Sophie V. Coelln, Deanne L. Coppejans, **Georgios Dimitriadis**, Andris Dorozsmai, Maria Drout, Wynn Jacobson-Galan, Bore Gao, Ryan Ridden-Harper, Charles Donald Kilpatrick, Tanmoy Laskar, David Matthews, Sofia Rest, Ken W. Smith, Candice McKenzie Stauffer, Michael C. Stroh, Louis-Gregory Strolger, Giacomo Terreran, Justin D. R. Pierel, and Anthony L. Piro. SN 2019tsf: Evidence for Extended Hydrogen-poor CSM in the Three-peaked Light Curve of Stripped Envelope of a Type Ib Supernova. *APJ*, 992(1):9, October 2025.

[12] L. Lacroix, N. Regnault, T. de Jaeger, M. Le Jeune, M. Betoule, J. M. Colley, M. Bernard, M. Rigault, M. Smith, A. Goobar, K. Maguire, **G. Dimitriadis**, J. Nordin, J. Johansson, M. Aubert, C. Barjou, E. C. Bellm, S. Bongard, U. Burgaz, B. Carreres, D. Fouchez, F. Feinstein, L. Galbany, M. Ginolin, M. Graham, D. Kuhn, R. R. Laher, T. E. Müller-Bravo, J. Neveu, M. Osman, B. Popovic, B. Racine, P. Rosnet, D. Rosselli, R. Smith, J. Sollerman, J. H. Terwel, A. Townsend, and A. Wold. ZTF SNe Ia DR2: Towards cosmology-grade ZTF supernova light curves using scene modeling photometry. *arXiv e-prints*, page arXiv:2509.04073, September 2025.

[13] I. A. Abreu Paniagua, W. B. Hoogendam, D. O. Jones, **G. Dimitriadis**, R. J. Foley, C. Gall, J. O'Brien, K. Taggart, C. R. Angus, C. Ashall, K. Auchettl, D. A. Coulter, K. W. Davis, T. de Boer, A. Do, H. Gao, L. Izzo, C. C. Lin, T. B. Lowe, Z. Lai, R. Kaur, M. Y. Kong, A. Rest, M. R. Siebert, S. K. Yadavalli, Y. Zenati, and Q. Wang. The New Status Qvo? SN 2021qvo is Another 2003fg-like Type Ia Supernova with a Rising Light-Curve Bump. *arXiv e-prints*, page arXiv:2508.13263, August 2025.

[14] Aysha Aamer, Matt Nicholl, Sebastian Gomez, Edo Berger, Peter Blanchard, Joseph P. Anderson, Charlotte Angus, Amar Aryan, Chris Ashall, Ting-Wan Chen, **Georgios Dimitriadis**, Lluís Galbany, Anamaria Gkini, Mariusz Gromadzki, Claudia P. Gutiérrez, Daichi Hiramatsu, Griffin Hosseinzadeh, Cosimo Inserra, Amit Kumar, Harsh Kumar, Hanindyo Kuncarayakti, Giorgos Leloudas, Paolo Mazzali, Kyle Medler, Tomás E. Müller-Bravo, Mauricio Ramirez, Aiswarya Sankar K, Steve Schulze, Avinash Singh, Jesper Sollerman, Shubham Srivastav, Jacco H. Terwel, and David R. Young. The Type I superluminous supernova catalogue – II. Spectroscopic evolution in the photospheric phase, velocity measurements, and constraints on diversity. *MNRAS*, 541(3):2674–2706, August 2025.

[15] D. A. Coulter, C. D. Kilpatrick, D. O. Jones, R. J. Foley, J. Anais Vilchez, I. Arcavi, K. E. Clever, **G. Dimitriadis**, A. V. Filippenko, N. Muñoz-Elgueta, A. L. Piro, P. J. Quiñonez, G. S. Rahman, C. Rojas-Bravo, M. R. Siebert, H. E. Stacey, J. J. Swift, W. Zheng, J. S. Bloom, M. J. Bustamante-Rosell, K. W. Davis, J. Kutcka, P. Macias, P. McGill, E. Ramirez-Ruiz, K. Siellez, S. Tinyanont, S. B. Cenko, M. R. Drout, R. Hausen, D. Andrew Howell, W. V. Jacobson-Galán, D. Kasen, C. McCully, A. Rest, K. Taggart, and S. Valenti. The Gravity Collective: A Comprehensive Analysis of the

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ATCA: Australia Telescope Compact Array, ASKAP: Australian SKA Pathfinder, Las Cumbres Observatory Group, OzGrav, FDWF (Deeper, Wider, Faster Program), AST3, and CAASTRO Collaborations, The VINROUGE Collaboration, MASTER Collaboration, J-GEM, GROWTH, JAGWAR, Caltech-NRAO, TTU-NRAO, and NuSTAR Collaborations, Pan-STARRS, The MAXI Team, TZAC Consortium, KU Collaboration, Nordic Optical Telescope, **ePESSTO**, GROND, Texas Tech University, SALT Group, TOROS: Transient Robotic Observatory of the South Collaboration, The BOOTES Collaboration, MWA: Murchison Widefield Array, The CALET Collaboration, IKI-GW Follow-up Collaboration, H.E.S.S. Collaboration, LOFAR Collaboration, LWA: Long Wavelength Array, HAWC Collaboration, The Pierre Auger Collaboration, ALMA Collaboration, Euro VLBI Team, Pi of the Sky Collaboration, The Chandra Team at McGill University, DFN: Desert Fireball Network, ATLAS, High Time Resolution Universe Survey, RIMAS and RATIR, and SKA South Africa/MeerKAT. Multi-messenger Observations of a Binary Neutron Star Merger. *APJL*, 848(2):L12, October 2017.

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