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Goni Halevi

education

Ph.D, Astrophysics, Princeton University, 2022 (*expected*)

Advisor: *Jim Stone*

B.A., Physics, University of California (Berkeley), 2017

with Distinction in General Scholarship

B.A., Astrophysics, University of California (Berkeley), 2017

with Distinction in General Scholarship

research interests

High-energy, nuclear, + computational astrophysics

supernovae, compact objects, thermonuclear burning, r-process nucleosynthesis, nuclear dominated accretion flows, MHD, numerical relativity, ...

publications

View all on: [ADS](#), [ORCID](#), [arXiv](#)

Refereed

Goni Halevi and Philipp Mösta. 2018. “r-Process nucleosynthesis from three-dimensional jet-driven core-collapse supernovae with magnetic misalignments.” *Monthly Notices of the Royal Astronomical Society* 477: 2366–2375

Philipp Mösta, Luke Roberts, **Goni Halevi**, et al. 2018. “R-process Nucleosynthesis from Three-Dimensional Magnetorotational Core-Collapse Supernovae” *The Astrophysical Journal* (accepted)

Thomas de Jaeger, ..., **Goni Halevi**, et al. 2018. “SN 2016esw: a luminous Type II supernova observed within the first day after the explosion.” *Monthly Notices of the Royal Astronomical Society* (accepted)

WeiKang Zhang, ..., **Goni Halevi**, et al. 2017. “Discovery and Follow-up Observations of the Young Type Ia Supernova 2016coj.” *The Astrophysical Journal* 841: 64

Non-refereed

Thomas Brink, **Goni Halevi**, et al. 2017. “LOSS Transient Classification Report for 2017-03-21” *Transient Name Server Classification Report* 2017–334

Weikang Zheng, Thomas Brink, **Goni Halevi**, et al. 2017. “LOSS Transient Classification Report for 2017-03-17” *Transient Name Server Classification Report* 2017–318

Goni Halevi, et al. 2016. “LOSS Transient Classification Report for 2016-08-09” *Transient Name Server Classification Report* 2016–542

Goni Halevi, et al. 2016. “LOSS Transient Classification Report for 2016-08-03” *Transient Name Server Classification Report* 2016–518

Goni Halevi, et al. 2016. “Spectroscopic Classifications of AT2016cyw and AT2016ehy as Type IIP and Ia Supernovae, Respectively” *The Astronomer’s Telegram* 9309

Goni Halevi, et al. 2016. “LOSS Transient Classification Report for 2016-03-24” *Transient Name Server Classification Report* 2016–240

Goni Halevi, et al. 2016. “Spectroscopic Classification of PSN J15502534+1856075 as a Type II Supernova” *The Astronomer’s Telegram* 8670

WeiKang Zhang, **Goni Halevi**, et al. 2015. “Spectroscopic Classification of ASASSN-15rm as a Type Ia Supernova” *The Astronomer’s Telegram* 8209

Melissa Graham, **Goni Halevi**, et al. 2015. “[Classification of PSN J09254453+3416361 as a Type II Supernova](#)” *The Astronomer’s Telegram* 8169

invited talks	“Magnetorotational Core-Collapse SNe as Sites of r-process Nucleosynthesis.” Neutron Star Merger Summer School, Michigan State University, May 2018 “r-Process nucleosynthesis from three-dimensional jet-driven core-collapse supernovae with magnetic misalignments.” MHD Group Meeting, Princeton University, May 2018
conference presentations	“r-Process Nucleosynthesis in Jet-driven Core-Collapse Supernovae.” 229th Meeting of the American Astronomical Society, Grapevine, TX, January 2017. “Type II-P Supernovae and their Progenitors.” APS Conference for Undergraduate Women in Physics, University of California (San Diego), January 2016
grants, honors, & awards	Student Commencement Speaker (\$1000), UC Berkeley Astronomy Department, May 2017 Outstanding Graduate Student Instructor Award, UC Berkeley, 2016–2017 Google Lick Pre-doctoral Fellow, Google and Lick Observatory, 2016–2017 Daniel Edward Wark Award (\$5000), UC Berkeley Astronomy Department, 2015
teaching	Instructor, Introduction to Astrophysics for Majors II (Astro 7B), UC Berkeley, Spring 2016, Spring 2017 Instructor, Introduction to General Astronomy for Non-Majors (Astro C10), UC Berkeley, Fall 2015, Fall 2016
outreach, leadership, equity, & inclusion	Climate Committee, Princeton Dept. of Astrophysical Sciences <i>Co-founder and Graduate Student Representative, 2018–</i> AstroJustice Discussion Group, Princeton <i>Co-founder and Co-facilitator, 2018–</i> Public Programs at Lick Observatory, CA <i>Volunteer Astronomer, 2015–2017</i> AstroJustice Discussion Group, Berkeley <i>Co-founder and Co-facilitator, 2015–2017</i> Undergraduate Astronomy Society, Berkeley <i>Co-founder and Organizing Committee Member, 2015–2017</i> Society for Women In the Physical Sciences, Berkeley <i>Undergraduate Coordinator, 2015–2017</i> Society of Physics Students, Berkeley, 2015–2016 <i>Vice President, 2015–2016</i> <i>Outreach Coordinator, 2014–2015</i>
computing resources	Blue Waters (NCSA), Stampede (NSF XSEDE/TACC), Cori and Edison (NERSC/DOE) <i>Experienced user</i>
observing experience	Shane Telescope (3-m) with Kast Double Spectrograph, Lick Observatory <i>~25 nights as lead or solo observer for A. Filippenko or A. Barth</i> Nickel Telescope (1-m), Lick Observatory <i>~70 nights as lead or solo observer for A. Filippenko</i>
languages	English (native), Hebrew (native)