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## Goni Halevi

### education

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

As NSF Fellow, Advisor: *Jim Stone*

B.A., Physics & 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* 864:2

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* 478: 3776–3792

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	<p>“Magnetorotational Core-Collapse SNe as Sites of r-process Nucleosynthesis.” Neutron Star Merger Summer School, Michigan State University, May 2018</p> <p>“r-Process nucleosynthesis from three-dimensional jet-driven core-collapse supernovae with magnetic misalignments.” MHD Group Meeting, Princeton University, May 2018</p>
conference presentations	<p>“r-Process Nucleosynthesis in Jet-driven Core-Collapse Supernovae.” 229th Meeting of the American Astronomical Society, Grapevine, TX, January 2017.</p> <p>“Type II-P Supernovae and their Progenitors.” APS Conference for Undergraduate Women in Physics, University of California (San Diego), January 2016</p>
grants, honors, & awards	<p>Graduate Research Fellowship, National Science Foundation, 2019–</p> <p>Student Commencement Speaker (<i>\$1000</i>), UC Berkeley Astronomy Department, May 2017</p> <p>Outstanding Graduate Student Instructor Award, UC Berkeley, 2016–2017</p> <p>Google Lick Pre-doctoral Fellow, Google and Lick Observatory, 2016–2017</p> <p>Daniel Edward Wark Award (<i>\$5000</i>), UC Berkeley Astronomy Department, 2015</p>
teaching	<p>Instructor, Astronomy (PHY130), Raritan Valley Community College (at East Jersey State Prison), Fall 2018</p> <p>Instructor, Introduction to Astrophysics for Majors II (Astro 7B), UC Berkeley, Spring 2016, Spring 2017</p> <p>Instructor, Introduction to General Astronomy for Non-Majors (Astro C10), UC Berkeley, Fall 2015, Fall 2016</p>
outreach, leadership, equity, & inclusion	<p>Climate Committee, Princeton Dept. of Astrophysical Sciences <i>Co-founder and Graduate Student Representative, 2018–</i></p> <p>WUNCH (Graduate Student seminar), Princeton Dept. of Astrophysical Sciences <i>Co-organizer, 2018–2019</i></p> <p>Public Programs at Lick Observatory, CA <i>Volunteer Astronomer, 2015–2017</i></p> <p>AstroJustice Discussion Group, Berkeley <i>Co-founder and Co-facilitator, 2015–2017</i></p> <p>Undergraduate Astronomy Society, Berkeley <i>Co-founder and Organizing Committee Member, 2015–2017</i></p> <p>Society for Women In the Physical Sciences, Berkeley <i>Undergraduate Coordinator, 2015–2017</i></p> <p>Society of Physics Students, Berkeley, 2015–2016 <i>Vice President, 2015–2016</i> <i>Outreach Coordinator, 2014–2015</i></p>
languages	<p>English (native), Hebrew (native)</p>