

APPOINTMENTS

- 2022 – Senior Lecturer, Racah Institute of Physics, Hebrew University of Jerusalem
2021 – 2022 51 Pegasi b Postdoctoral Fellow, Theoretical Astrophysics, Caltech
2018 – 2021 51 Pegasi b Postdoctoral Fellow, Astronomy Department, UC Berkeley

EDUCATION

- 2015 – 2018 Ph.D. in Physics, The Hebrew University of Jerusalem. Advisor: Re'em Sari
Exo-planet Formation and Evolution: The Role of Cooling
2009 – 2013 M.Sc. (Magna Cum Laude) in Physics, The Hebrew University of Jerusalem
Advisor: Shmuel Balberg. *Superluminous Supernovae Exploding in a Wind*
2005 – 2008 B.Sc. (Magna Cum Laude) in Mathematics and Physics
The Hebrew University of Jerusalem, Talpiot Program

AWARDS & GRANTS

- 2023 Start-up grant, US – Israel Binational Science Foundation (BSF), co-PI
2022 Space research grant, Ministry of Science, PI
2022 Seed fund, University of Zurich Partnerships, co-PI
2022 Benozio Fellowship, Weizmann Institute of Science (declined)
2021 Gemini Telescope time, co-investigator (PI: Marta Bryan)
2020 Hubble Space Telescope time, co-investigator (PI: Wilson Cauley)
2018 51 Pegasi b Fellowship, The Heising-Simons Foundation
2018 Junior fellowship, Simons Society of Fellows, Columbia University (declined)
2018 ITC fellowship, Harvard University (declined)
2017 Arnold Rosenblum Prize, Hebrew University
2016 Prof. Rahamimoff Travel Grant, BSF Foundation
2015 Aharon and Ephraim Katzir Study Grant, Batsheva de Rothschild Fund
2007 Dean's list, Faculty of Natural Sciences, Hebrew University
2006 Rector's award, Hebrew University
2005 Bronze medal, International Physics Olympiad, Spain

MENTORING

- 2023 – Daniel Blatman, Ph.D. student at the Hebrew University
2023 HUJI undergraduates: Yoav Siman Tov, Maya Levy, Tal Bar Shalom
2022 – 2023 HUJI undergraduates: Jordan Conrad-Burton, Alon Shabi, Yair Cohen

- 2020 UC Berkeley undergraduates: Dhruv Muley (MPIA), Arin Avsar (U. Arizona)
- 2019 – 2020 Mickey Rosenthal, graduate at UC Santa Cruz
(jointly with Eugene Chiang and Ruth Murray-Clay)

TEACHING

- 2023 – Lecturer, HUJI, *Mechanics & Special Relativity*
- 2008, 2016 – 2018 Teaching Assistant, HUJI, *Thermal Physics/Electricity and Magnetism*

MISCELLANEOUS

- 2019 – 2020 UC Berkeley Theoretical Astrophysics Center seminar series co-organizer
- 2008 – 2014 Officer, Israel Defense Forces, Talpiot Program

SELECTED RECENT CONFERENCE TALKS

- 12/2022 Unsolved Astrophysics Problems, Jerusalem: *Post Runaway Planet Formation*
- 11/2022 KITP, Santa Barbara: *White Dwarf Crystallization Dynamos*
- 08/2022 Stars 2020, Cambridge: *Black Widows as Stellar Evolution Labs*

PUBLICATIONS (students in the group are underlined)

1. Daniel Blatman & **Sivan Ginzburg**, 2024, MNRAS, 528, 3153 – 3162. *Magnetic field breakout from white dwarf crystallization dynamos*
2. Jordan Conrad-Burton, Alon Shabi & **Sivan Ginzburg**, 2023, MNRAS, 525, 2708 – 2715. *Convective dynamos of black widow companions*
3. **Sivan Ginzburg**, Jim Fuller, Adela Kawka & Ilaria Caiazzo, 2022, MNRAS, 514, 4111 – 4119. *Slow convection and fast rotation in crystallization-driven white dwarf dynamos*
4. Adina Feinstein et al., 2022, AJ, 164, 110. *AU Microscopii in the Far-UV: Observations in Quiescence, During Flares, and Implications for AU Mic b and c*
5. **Sivan Ginzburg** & Eugene Chiang, 2022, MNRAS Letters, 509, L1 – L5. *Eccentric millisecond pulsars by resonant convection*
6. **Sivan Ginzburg** & Eliot Quataert, 2021, MNRAS, 507, 475 – 483. *Novae heat their food: mass transfer by irradiation*
7. Jason Wang et al. including Reinhard Genzel, 2021, AJ, 161, 148. *Constraining the Nature of the PDS 70 Protoplanets with VLTI/GRAVITY*
8. **Sivan Ginzburg** & Eliot Quataert, 2021, MNRAS, 500, 1592 – 1603. *Black widow formation by pulsar irradiation and sustained magnetic braking*
9. Marta Bryan, **Sivan Ginzburg**, Eugene Chiang et al., 2020, ApJ, 905, 37. *As the Worlds Turn: Constraining Spin Evolution in the Planetary-Mass Regime*

10. Mickey Rosenthal, Eugene Chiang, **Sivan Ginzburg** & Ruth Murray-Clay, 2020, MNRAS, 498, 2054 – 2067. *How consumption and repulsion set planetary gap depths and the final masses of gas giants*
11. **Sivan Ginzburg** & Eugene Chiang, 2020, MNRAS, 498, 680 – 688
Heavy-metal Jupiters by major mergers: metallicity vs. mass for giant planets
12. **Sivan Ginzburg** & Eliot Quataert, 2020, MNRAS, 495, 3656 – 3665
Black widow evolution: magnetic braking by an ablated wind
13. Jason Wang, **Sivan Ginzburg** et al., 2020, AJ, 159, 263
Keck/NIRC2 L'-Band Imaging of Jovian-Mass Accreting Protoplanets around PDS 70
14. Thaddeus Komacek, Daniel Thornngren, Eric Lopez & **Sivan Ginzburg**, 2020, ApJ, 893, 36. *Reinflation of Warm and Hot Jupiters*
15. **Sivan Ginzburg** & Eugene Chiang, 2020, MNRAS Letters, 491, L34 – L39
Breaking the centrifugal barrier to giant planet contraction by magnetic disc braking
16. **Sivan Ginzburg** & Eugene Chiang, 2019, MNRAS, 490, 4334 – 4343
The endgame of gas giant formation: accretion luminosity and contraction post-runaway
17. **Sivan Ginzburg** & Eugene Chiang, 2019, MNRAS, 487, 681 – 690
The end of runaway: how gap opening limits the final masses of gas giants
18. Maayane Soumagnac, Eran Ofek, Avishay Gal-yam, Eli Waxman, **Sivan Ginzburg** et al., 2019, ApJ, 872, 141. *Supernova PTF12glz: A Possible Shock Breakout Driven through an Aspherical Wind*
19. **Sivan Ginzburg** & Re'em Sari, 2018, MNRAS, 479, 1986 – 1996
Deep and wide gaps by super Earths in low-viscosity discs
20. **Sivan Ginzburg**, Hilke Schlichting & Re'em Sari, 2018, MNRAS, 476, 759 – 765
Core-powered mass loss and the radius distribution of small exoplanets
21. **Sivan Ginzburg** & Re'em Sari, 2017, MNRAS, 469, 278 – 285
Hot-Jupiter core mass from Roche lobe overflow
22. **Sivan Ginzburg** & Re'em Sari, 2017, MNRAS, 464, 3937 – 3944
Tidal heating of young super-Earth atmospheres
23. **Sivan Ginzburg**, Niraj Inamdar & Hilke Schlichting, 2017, invited review in Formation, Evolution, and Dynamics of Young Solar Systems, ASSL, 445
Super-Earths: Atmospheric Accretion, Thermal Evolution and Envelope Loss
24. **Sivan Ginzburg**, Hilke Schlichting & Re'em Sari, 2016, ApJ, 825, 29
Super-Earth Atmospheres: Self-consistent Gas Accretion and Retention
25. **Sivan Ginzburg**, Re'em Sari & Abraham Loeb, 2016, ApJL, 822L, 11
Blackbody Radiation from Isolated Neptunes
26. **Sivan Ginzburg** & Re'em Sari, 2016, ApJ, 819, 116
Extended Heat Deposition in Hot Jupiters: Application to Ohmic Heating
27. **Sivan Ginzburg** & Re'em Sari, 2015, ApJ, 803, 111
Hot-Jupiter Inflation due to Deep Energy Deposition

28. **Sivan Ginzburg** & Shmuel Balberg, 2014, ApJ, 780, 18
Light Curves from Supernova Shock Breakout through an Extended Wind
29. **Sivan Ginzburg** & Shmuel Balberg, 2012, ApJ, 757, 178
Superluminous Light Curves from Supernovae Exploding in a Dense Wind