

January 4, 2018

Curriculum Vitae - **Ehud Nakar**

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Date of Birth: 13/8/1972

Education

2001-2004: Ph.D., Racah Institute of Physics, Hebrew University, Jerusalem, Israel.

1999-2000: M.Sc, Physics, (Magna Cum Laude) Hebrew University, Jerusalem, Israel.

1996-1998: B.Sc, Physics and Computer Science (Summa Cum Laude), Hebrew University, Amirim program for outstanding students.

Positions

2016- : Professor, Tel Aviv University.

2011-2016 : Associate Professor, Tel Aviv University.

2009-2011: Senior Lecturer, Tel Aviv University.

2005-2008: Senior Research Fellow, California Institute of Technology.

2004: Marie Curie Fellow, Institut d'Astrophysique de Paris.

1999-2004: Physics Research and Teaching Assistant, Hebrew University.

Visiting Appointments

2010-2013: Visiting Associate in Astrophysics (Summer appointments), California Institute of Technology

Publications:

117 refereed papers (8000+ citations; h-index 52; 15 papers in Nature & Science; 112 papers in ESI rank Q1 Journals), [citation counts are based on "The Astrophysics Data System"].

Grants

2017-2021: ISF grant No. 1114/17, Co-PI, NIS 1,120,000

2012-2016: ERC Starting Independent Researcher Grant, PI, Euro 1,468,180

2013-2017: ISF grant No. 1277/13, Co-PI, NIS 960,000

2014-2016: Ministry of Science grant, Co-PI, NIS 360,000

2009-2012: EU FP7 IRG grant # 223816, PI, Euro 100,000

2008-2012: ISF grant No. 174/08, PI, NIS 570,000

2007: SWIFT Guest Investigator, PI, \$43,965

Honors, Awards and Fellowships

2012: Founding member of the Israeli Young Academy (<http://www.young.academy.ac.il/en/>), established by the Israel Academy of Sciences and Humanities at 2012

2012: Member of the Israeli Center for Research Excellence (i-Core) - Astrophysics: from the Big Bang to Planets

2011: The Raymond and Beverly Sackler Chair for young scientists

2010: Israeli Physical Society (IPS) Prize for a Young Physicist (shared with A. Gal-Yam)

2009: Alon fellowship to outstanding young faculty

2005-2008: Sherman Fairchild Senior Research Fellowship - a 6-year research associate scholarship

2004: European Union Murie Curie Fellowship for outstanding doctoral students.

2003: The International Dan David Scholarship for outstanding doctoral students.

2002-2004: The Horwitz prize - 3 year scholarship for outstanding Ph.d. students.

2000: The Wolf prize for outstanding M.Sc students.

1999, 2000: The Rector prize for outstanding M.Sc students.

1997, 1998: Israeli parliament (Kneset) award for outstanding students.

1997, 1998: The Rector prize for outstanding undergraduate students.

Past and Present Postdocs and Graduate Students

- Dr. Christopher Irwin, Postdoc, joint supervision with Prof. Tsvi Piran, to be started on Dec. 2016
- Dr. Alexandra Kozyreva, Postdoc, 2016- , *“Numerical simulations of supernovae light curves”*
- Dr. Chi Ho Chan, Postdoc, 2016- , joint supervision with Prof. Tsvi Piran, *“Numerical simulations of accretion disks”*
- Dr. Richard Harrison, Postdoc, 2013- , *“Numerical simulations of relativistic jets”*
- Dr. Daniel Kagan, Postdoc, 2013- , joint supervision with Prof. Tsvi Piran, *“Relativistic magnetic reconnection”*
- Dr. Rong-feng Shen, Postdoc, 2013-2015, joint supervision with Prof. Tsvi Piran, *“Super-Eddington winds”*
- Ore Gottlieb, Ph.d., 2016- , *“Propagation of a relativistic jet in a stellar envelope”*
- Tomer Shussman, Ph.d., 2013- , *“The emission from core collapse supernovae”*
- Gilad Svirsky, Ph.d., 2009-2014, *“X-ray signal from interacting supernovae and magnetar bursts”*
- Alon Granot, M.Sc. 2015- , *“Structure of relativistic radiation mediated shocks”*
- Yanir Jaimky, M.Sc., 2010-2012, joint supervision with Prof. Re'em Sari, *“Hypervelocity Stars from Tidal Breakup of a Binary Star on Eccentric Orbits around a SuperMassive Black Hole”*

Professional Services and Conferences Organization

2017: Coordinator of the KITP rapid response workshop "Astrophysics from a Neutron Star Merger"

2016-2018: Member, Alon Fellowship Review Committee

2014 - : Member, ULTRASAT Science Team

2012: SOC member of the IAU symposium 279 "Death of Massive Stars: Supernovae and Gamma-Ray Bursts", Nikko, Japan, Mar 2012

2010: SOC member of the Israeli Physical Society General Assembly, Tel Aviv, Dec 2010

2010-2012 : Member, Lobster Science Team

2009: SOC and LOC member of the international conference "Astrophysics at the Extreme", Hebrew University, Jerusalem, Israel, Dec 2009

2006 - 2007: Member, American Astronomical Society (AAS)

2006 - : Member, the Swift Theory Science Team

2005: Member, NASA ATP Program Proposal Review Committee

2005: Member, NASA Swift Guest Investigator Proposal Review Committee

referee: Nature, Astrophysical Journal, Monthly Notices of the Royal Astronomical Society, Astronomy & Astrophysics, Journal of Cosmology and Astroparticle Physics

Selected Invited Talks in Conferences

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| Lecture series at the 35'th Jerusalem Winter School in Theoretical Physics Jerusalem, Israel | 2018 |
| Coordinator of the KITP workshop "Astrophysics from a Neutron Star Merger" Santa Barbara, USA | 2017 |
| "Gamma-Ray Bursts: New Missions to New Science" Moscow, Russia | 2013 |
| "Observational Signatures of Type Ia Supernova Progenitors II" Leiden, The Netherlands | 2013 |
| "iPTF2013 workshop" (Panel discussion) Pasadena, USA | 2013 |
| "The Texas Symposium" (plenary talk) Sao Paulo, Brazil | 2012 |
| "Nature's Particle Accelerators" Annapolis, USA | 2012 |
| "Gamma Ray Bursts in the Era of Rapid Follow-up" Liverpool, UK | 2012 |
| "Fermi/Swift Gamma-Ray Burst Symposium 2012" Munich, Germany | 2012 |
| "Explosive Ideas about Massive Stars" Stockholm, Sweden | 2011 |
| "2009 Fermi Symposium" Washington DC, USA | 2009 |
| "The Shocking Universe" Venice, Italy | 2009 |
| "Rogerfest : A Festival of Cosmic Explosions" Pasadena, CA, USA | 2009 |
| "Particle Acceleration in Astrophysical Plasmas" Santa Barbara, CA, USA | 2009 |
| "6'th Huntsville Symposium on Gamma-Ray Bursts" Huntsville, AL, USA | 2008 |
| "Kinematic modeling of Astrophysical Plasma" Cracow, Poland | 2008 |
| "Swift Team Meeting" Las Vegas, USA | 2008 |
| "Israel Physical Society" Be'er Sheva, Israel | 2008 |
| "Gamma Ray Bursts 2007" Santa Fe, USA | 2007 |
| "LSST Transients & Variables SWG Meeting" Pasadena, USA | 2007 |
| "070228 - The Next Decade of GRB Afterglows" Amsterdam, Netherlands | 2007 |
| "YongPyong Astro Particle CPV in Topical Physics" YongPyong, Korea | 2007 |
| "209 American Astronomical Society Meeting" Seattle, USA | 2007 |

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| “36th COSPAR Scientific Assembly” Beijing, China | 2006 |
| “Dynamical processes in Space Plasma” Ein-Bokek, Israel | 2006 |
| “The Transient Universe 2006” KITP, UC Santa Barbara, USA | 2006 |
| “Energy Budget in the High Energy Universe” Kashiwa, Japan | 2006 |
| “The Supernova Gamma-Ray Burst Connection” KITP, UC Santa Barbara, USA | 2006 |
| “The XXII Texas Symposium on Relativistic Astrophysics” Stanford, USA | 2004 |