

# Jonathan Granot \_\_\_\_\_ Curriculum Vitae

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## EDUCATION \_\_\_\_\_

- 2002      **Ph.D.** in Physics, Hebrew University of Jerusalem  
1999      **M.Sc.** in Physics, Hebrew University of Jerusalem  
1997      **B.Sc.** in Physics and Mathematics, Hebrew University of Jerusalem

## POSITIONS HELD \_\_\_\_\_

- 2017 –      Adjunct Professor, George Washington University  
2016 –      Full Professor, Open University of Israel  
2012 – 2016      Associate Professor, Open University of Israel  
2008 – 2012      Reader in Astrophysics, University of Hertfordshire  
2007 – 2008      Principal Lecturer, University of Hertfordshire  
2004 – 2007      Research Associate, KIPAC, Stanford  
2001 – 2004      Member, Institute for Advanced Study (IAS), Princeton

## VISITING POSITIONS \_\_\_\_\_

- Long term:    2011 – 2012    Erskine Visiting Associate Professor, Hebrew University  
Short term:    2008, 09, 14    KIPAC, Stanford & University of California, Santa Cruz  
                         2006              Kavli Institute for Theoretical Physics, Santa Barbara  
                         2000              Kersten Visiting Fellow, University of Chicago

## HONORS, PRIZES, AWARDS \_\_\_\_\_

- 2011      HEAD AAS Rossi Prize to B. Atwood, P. Michelson & the Fermi LAT team  
2007      Royal Society Wolfson Research Merit Award (for 5 years;  
                         significant salary enhancement + some research funds)  
2007      HEAD AAS Rossi Prize to Neil Gehrels and the Swift team  
2003      Keck Fellowship (Institute for Advanced Study, Princeton)  
2000      A 3 year Scholarship from the Horowitz foundation  
2000      The Giulio Racah prize for academic excellence  
1999      M.Sc. *cum laude* in Physics (Hebrew University)  
1997      B.Sc. *cum laude* in Physics and Mathematics (Hebrew Univ.)  
1995, 6    Dean's list of the Faculty of Mathematics and Natural Sciences

## RESEARCH INTERESTS \_\_\_\_\_

- High energy astrophysics; gamma-ray bursts; magnetars; gravitational lensing; high energy neutrinos; pulsar wind nebulae; relativistic fluid dynamics and MHD; structure of blast waves; dynamics of relativistic jets; tests of Lorentz invariance violation.

## SELECT ACADEMIC ACHIEVEMENTS \_\_\_\_\_

- ★ **156** papers published in refereed journals
- ★ **44** first (or main) author papers; **5** review articles; **2** book chapters
- ★ **53** invited talks at conferences/meetings (and >50 colloquia/seminars)
- ★ Over **11,000** citations (H-index of **53**; SAO/NASA Astrophysics Data System)

## PROFESSIONAL ACTIVITY \_\_\_\_\_

- Peer Review for: Science Magazine; Nature Astronomy; Nature Physics; Phys. Rev. (Letters; E); ApJ (Letters; main J.); MNRAS (Letters; main J.); Astron. & Astrophys.; Rep. Prog. Phys.; JHEAP; Adv. in Space Res.; Astroparticle Physics; PASJ; JCAP; Rev. Mex. A&A; ASTRA; IJMPCS; NJP
- Review of proposals for: NASA; NSF; ERC; DFG; European Science Foundation (ESF); US-Israel Binational Science Foundation (BSF); Israel Science Foundation (ISF); STFC; SNS; Aristeia; WHT; Gemini Observatory
- Co-I in VLBA, VLA, VLT, EVN, WSRT, Chandra, Spitzer, and Hubble Space Telescope proposals, and PI of a VLBA proposal
- Chaired sessions or was a member of the SOC in many international conferences
- Member of the **Swift** Science Theory Team 2006–
- Affiliated Scientist with the **Fermi Large Area Telescope** collaboration 2007–
- Member of **Cherenkov Telescope Array** collaboration (GRB task co-leader) 2008–
- Israeli delegate, COST MP1304 “Exploring fundamental physics with compact stars”

## SELECT PERSONAL RESEARCH FUNDING \_\_\_\_\_

- 2007–2011: Marie Curie International Reintegration Grant (€ 100,000)
- 2007–2012: Royal Society Wolfson Research Merit Award (£ 18,000)
- 2014–2019: Israel Science Foundation (with Yuri Lyubarsky;  $\frac{1}{2} \times$  NIS 1,030,000)

## TEACHING AND MENTORING EXPERIENCE \_\_\_\_\_

- Developing and updating courses in Physics at the Open University of Israel (2012–)
- Taught courses in astrophysics, physics, mathematics, programming (2007 – 2011)
- Mentoring & guiding PhD students and postdocs (at Princeton, Stanford, Hebrew U.); supervising postdocs (at U. of Hertfordshire, Open U. of Israel – currently 2)
- Gave tutorial talks at summer schools and review talks at conferences
- Organized a GRB Journal Club at KIPAC, Stanford (2006 – 2007)
- Worked as a teaching assistant (1996 – 1998) and physics lab instructor (1998 – 2001)

## INVITED TALKS

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1. “GeV Emission from GRBs: New Perspectives from *Fermi*”, invited talk at the 15<sup>th</sup> Marcel Grossmann meeting (MG15), July 6, 2018, Rome, Italy
2. “The Bright and the Slow – GRBs 100724B & 160509A with high-energy cutoffs at  $\lesssim 100$  MeV”, invited talk at the 15<sup>th</sup> Marcel Grossmann meeting (MG15), given on behalf of Dr. Giacomo Vianello, July 2, 2018, Rome, Italy
3. “Lessons from GW170817/GRB170817A”, invited talk at the 3<sup>rd</sup> PANDA Symposium on Time Domain Astronomy & 1<sup>st</sup> results from Insight-HXMT; June 19, 2018, Chengdu, China
4. “Magnetic Fields in Gamma-Ray Bursts”, invited review talk at the conference “Deciphering the Violent Universe”, December 14, 2017, Playa del Carmen, Mexico
5. “Late Time GRB Radio Emission: Calorimetry & Identifying Orphan Afterglows”, “Radio Emission from NS-NS/BH Mergers”, invited talks at the 3<sup>rd</sup> Capitol Chats, on “Where are all the radio transients and what are they?”, August 16-18, 2017, GWU, Washington DC, USA
6. “GRB Prompt Emission Physics”, “Prompt GRB Emission: Spectra & Polarization”, invited talks at the Workshop on Gamma-Ray Bursts: Prompt to Afterglow, July 4-7, 2017 NCRA-TIFR, Pune, Maharashtra, India
7. “Lessons from the First Magnetar Wind Nebula”, invited talk at the High Energy Astrophysics Workshop, February 28, 2017, Jerusalem, Israel
8. “Magnetar Wind Nebula around Swift J1834.9-0854 evidence for energy injection well above the spin-down power”, “Emission and Detectability of Magnetar Wind Nebulae”, “Evolution of Magnetars”, invited talks at the 2<sup>nd</sup> Capitol Chats, on “Magnetars, what are they? ”, July 13–15, 2016, GWU, Washington DC, USA
9. “Bounds on Lorentz Invariance Violation from Fermi GRBs”, review talk at the 17<sup>th</sup> Lomonosov Conference on Elementary Particle Physics, 22/8/15, Moscow, Russia
10. “Jet in Star”, “Magnetic acceleration of GRB jets”, “GRB130427A: evidence for genuine violation of  $E_{\text{syn,max}}$ ”, at *The 1<sup>st</sup> Capitol Chat, on “GRBs and their prompt emission radiation mechanism”*, June 8–10, 2015, GWU, Washington DC, USA
11. “Gamma-Ray Bursts in the Fermi Era”, plenary review talk at the 5<sup>th</sup> Fermi Symposium, October 23, 2014, Nagoya, Japan
12. “Experimental Bounds on Quantum Gravity from Fermi GRB Observations”, review talk at “Experimental search for quantum gravity”, 3/9/14, SISSA, Trieste, Italy
13. “Jet acceleration, collimation and Stability”, at *The Strongest Magnetic Fields in the Universe*, Feb. 6, 2014, International Space Science Institute, Bern, Switzerland

14. “GRB Jet Dynamics”, invited review talk at *Future Directions of Relativistic Jets*, 31/8/2013, Skokloster, Sweden
15. “Searches for Quantum Gravity Signals using Gamma-Ray Bursts” invited talk at the conference *LOOPS 13*, July 23, 2013, Perimeter Institute, Waterloo, Canada
16. “GRB Jets: a Theoretical Review”, invited review talk at the workshop *Locating Astrophysical Transients*, May 15, 2013, Lorentz Center, Leiden, The Netherlands
17. “GRB Prompt Emission Mechanism: Implications of Fermi Observations”, invited talk at the 13<sup>th</sup> HEAD meeting, April 10, 2013, Monterey, California, USA
18. “Constraining Quantum Gravity with GRBs”, at *Experimental Search for Quantum Gravity: the hard facts*, October 24/10/12, Perimeter Institute, Waterloo, Canada
19. “GRB Jet Dynamics: Analytic Models and Numerical Simulations”, invited talk at the *Fall 2012 Gamma-Ray Burst Symposium*, 9/10/12, Marbella, Malaga, Spain
20. “Magnetic Field Decay in Magnetars and implications for evolutionary links”, invited talk at the 39<sup>th</sup> COSPAR Scientific Assembly, July 19, 2012, Mysore, India
21. “GRB Jet Dynamics and Afterglow Lightcurves”, invited talk at the 13<sup>th</sup> Marcel Grossmann meeting (MG13), July 6, 2012, Stockholm, Sweden
22. “Magnetized Relativistic Outflows: effects of strong time dependence”, invited talk at the 13<sup>th</sup> Marcel Grossmann meeting (MG13), July 5, 2012, Stockholm, Sweden
23. “GRBs: Current Status & Future Prospects”, review talk at the International Conference on Astrophysics & Cosmology (ICAC2012), 20/3/12, Kathmandu, Nepal
24. “What we could learn from Cherenkov Telescope Array observations of GRBs”, invited talk at the 12<sup>th</sup> HEAD meeting, 7/9/11, Newport, Rhode Island, USA
25. “Constraints on Lorentz Invariance Violation from Fermi”, invited talk at the *First LINK Workshop: Probing physics beyond the Standard Model with CTA*, November 12, 2010, Oxford, UK
26. “GRB theory in the Fermi Era”, invited talk at the conference *Accretion and Outflow in Black Hole Systems*, October 15, 2010, Kathmandu, Nepal
27. “Current Status and Future Prospects of GRB Science”, invited review talk at the RAS special discussion meeting *Explosive Transients*, June 18, 2010, Liverpool, UK
28. “Limits on Lorentz Invariance Violation from Fermi GRBs”, invited talk at the meeting *Fundamental Physics Laws: Lorentz Symmetry and Quantum Gravity*, June 2, 2010, Paris, France
29. “Highlights from Fermi GRB observations”, invited review talk at the Royal Astronomical Society *NAM 2010* meeting, April 14, 2010, Glasgow, Scotland

30. “Highlights from Fermi Gamma-Ray Space Telescope observations of GRBs”, invited talk at the “April” 2010 Meeting of the APS, 14/2/10, Washington, DC
31. “High-Energy Fermi GRBs, Long and Short”, invited talk at the 215<sup>th</sup> meeting of the American Astronomical Society, January 4, 2010, Washington, DC, USA
32. “Some Implications of Fermi High-Energy GRB Observations”, invited talk at the meeting *The Shocking Universe*, September 15, 2009, San Servolo, Venice, Italy
33. “GRB High-Energy Emission: First Year Highlights from Fermi”, invited talk at *Particle Acceleration in Astrophysical Plasmas*, 17/8/09, KITP, Santa Barbara, CA
34. “Similarities and Differences between Fermi GRB 080825C and AGILE GRB 080514B”, invited talk at the 6th Science AGILE Workshop, April 23, 2009, Milan, Italy
35. “First Results from Fermi on GRBs”, invited talk at the Symposium *First Results from the Fermi Gamma-ray Space Telescope*, March 7, 2009, Tokyo, Japan
36. “GRB Theory in the Fermi Era”, invited talk at the 44<sup>th</sup> Rencontres de Moriond on *Very High Energy Phenomena in the Universe*, February 2, 2009, La Thuile, Italy
37. “Gamma-Ray Bursts and High Energy Astrophysics”, invited talk at the STFC summer school for new research students in astronomy, Sep. 2, 2008, Hatfield, UK
38. “Theory of GRB Afterglows”, invited review talk at the workshop *Supernovae and GRBs at low z and in the Era of Reionization* May 28, 2008, Darjeeling, India
39. “Critical Review of Basic Afterglow Concepts”, invited review talk at the conference *070228: The Next Decade of GRB Afterglows*, 21/3/07, Amsterdam, The Netherlands
40. “Theory of GRB Afterglows”, invited talk at the conference *Circumstellar Media and Late Stages of Massive Stellar Evolution*, September 7, 2006, Ensenada, Mexico
41. “Structure and Dynamics of GRB Jets”, invited talk at the conference *Challenges in Relativistic Jets*, June 27, 2006, Cracow, Poland
42. “Magnetar-GRB Connection & SGR 1806-20 Giant Flare”, invited talk at the workshop *The Multicoloured Landscape of Compact Objects and their Explosive Origins*, June 13, 2006, Cefalu, Sicily, Italy
43. “The Flat Decay Phase in the Early X-ray Afterglows of *Swift* GRBs”, invited talk at *Swift and GRBs: Unveiling the Relativistic Universe*, June 5, 2006, Venice, Italy
44. “GRB Jet Propagation Outside the Progenitor”, invited talk at the conference “Supernova and GRB Remnants”, Feb. 6, 2006, KITP, Santa Barbara, CA, USA
45. “Probing the Magnetic Field Structure in GRBs via Polarization Measurements” invited talk at the mini-conference on “Astrophysical Explosions: from Engines to Remnants”, 47th Annual Meeting of DPP, APS, Oct. 25, 2005, Denver, CO, USA

46. “Physics of GRB Jets”, invited lecture at the summer school “Gamma-Ray Bursts: the First Three Hours”, August 31, 2005, Santorini, Greece
47. “Electromagnetic Models of Gamma-Ray Bursts: A Tutorial”, invited lecture at the summer school “Gamma-Ray Bursts: the First Three Hours”, given on behalf of Prof. Roger Blandford, August 29, 2005, Santorini, Greece
48. “The Structure and Dynamics of GRB Jets”, invited talk at the program *Physics of Astrophysical Outflows and Accretion Disks*, 12/3/05, KITP, Santa Barbara, CA
49. “Jets in Gamma-Ray Bursts”, invited talk at the conference “Triggering Relativistic Jets”, April 1, 2005, Cozumel, Mexico
50. “Radio Flares and the Magnetic Field Structure in GRB Outflows”, invited talk at the 22<sup>nd</sup> Texas Symposium on Relativistic Astrophysics, December 15, 2004, Stanford University, CA, USA
51. “X-ray and Gamma-Ray Polarization in Gamma-Ray Bursts”, invited talk at the workshop “X-ray Polarimetry”, February 10, 2004, SLAC, Stanford, CA, USA
52. “Some Theoretical Implications of Recent GRB Observations”, invited talk at the 10<sup>th</sup> Marcel Grossmann meeting on general relativity, 25/7/03, Rio de Janeiro, Brazil
53. “GRB Jets and Orphan Afterglows”, invited talk in “Gamma Ray Bursts: the Brightest Explosions in the Universe” the Second Harvard-Smithsonian Conference on Theoretical Astrophysics, May 22, 2002, Cambridge, MA, USA

## LIST OF PUBLICATIONS

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Articles **published in refereed journals** are marked by ‘\*’

Articles **submitted** to refereed journals but not yet published are marked by ‘o’

### Magnetized Relativistic Jets: Dynamics, Dissipation, Radiation

1. \* “The Effect of Pair Cascades on the High-Energy Spectral Cutoff in Gamma-Ray Bursts”, Gill, R., & **Granot, J.** 2018, **MNRAS Lett.**, 475, L1–L5
2. \* “2D Relativistic MHD Simulations of the Kruskal-Schwarzschild Instability in a Relativistic Striped Wind”, Gill, R., **Granot, J.**, & Lyubarsky, Y. 2018, **MNRAS**, 474, 3535–3546
3. \* “GRBs from Magnetic Reconnection: Variability and Robustness of Lightcurves”, **Granot, J.** 2016, **ApJ Lett.**, 816, L20 (6 pages)
4. \* “Properties of GRB Lightcurves from Magnetic Reconnection”, Beniamini, P., & **Granot, J.** 2016, **MNRAS**, **459**, 3635–3658
5. \* “GRBs as Sources of Strong Magnetic Fields”, **Granot, J.**, Piran, T., Bromberg, O., Racusin, J. L., & Daigne, F. 2015, invited topical review (book chapter) in “The Strongest Magnetic Fields in the Universe” (Space Science Series, ISSI, Springer), Space Science Reviews
6. \* “The effects of sub-shells in highly magnetized relativistic flows”, **Granot, J.** 2012b, **MNRAS**, **421**, 2467–2477
7. \* “Interaction of a highly magnetized impulsive relativistic flow with an external medium”, **Granot, J.** 2012a, **MNRAS**, **421**, 2442–2466
8. \* “Impulsive Acceleration of Strongly Magnetized Relativistic Flows”, **Granot, J.**, Komissarov, S. S., & Spitkovsky, A. 2011, **MNRAS**, **411**, 1323–1353
9. \* “Opacity Build-up in Impulsive Relativistic Sources”, **Granot, J.**, Cohen-Tanugi, J., & do Couto e Silva, E. 2008, **ApJ**, **677**, 92–126

### Structure and Stability of Relativistic Shocks

10. \* “Stability of Radiative Relativistic Shocks to Global Oscillations”, Königl, A., & **Granot, J.** 2008, *International Journal of Modern Physics D*, **17**, 1777–1786
11. \* “Radiative Hydromagnetic Shocks in Relativistic Outflow Sources”, **Granot, J.**, & Königl, A. 2001, **ApJ**, **560**, 145–159

## Fundamental Physics: Astrophysical Tests of Lorentz Invariance

12. \* “A Planck-scale limit on spacetime fuzziness and stochastic Lorentz invariance violation”, Vasileiou, V., **Granot, J.**, Piran, T., & Amelino-Camelia, G. 2015, **Nature Physics**, 11, 344–346
13. \* “Lorentz Invariance Violation: latest Fermi results and GRB/AGN complementarity”, Bolmont, J., *et al.* 2014 (**J. Granot** author 6 of 9), NIMPA, **742**, 165
14. \* “Constraints on Lorentz Invariance Violation from Fermi/LAT Observations of GRBs”, Vasileiou, V. *et al.* 2013 (**J. Granot** author 6 out of 9), PRD, **87**, 122001
15. \* “A limit on the variation of speed of light arising from quantum gravity effects”, the Fermi LAT and Fermi GBM Collaborations, 2009, **Nature**, 462, 331–334 (**J. Granot** *is a corresponding author; he initiated, organized and supervised this work and was the main driving force behind it; he would be first author if not for the Fermi LAT collaboration’s strict alphabetical author list rule*).

## Gravitational Microlensing

16. \* “The Mean Number of Extra Microimage Pairs for Macrolensed Quasars” **Granot, J.**, Schechter, P. L., & Wambsganss, J. 2003, ApJ, **583**, 575–583
17. \* “Microlensing and the Surface Brightness Profile of the Afterglow Image of GRB 000301C”, Gaudi, B. S., **Granot, J.**, & Loeb, A. 2001, ApJ, **561**, 178–182
18. \* “Chromatic Signatures in the Microlensing of GRB Afterglows” **Granot, J.**, & Loeb, A. 2001, **ApJ Lett.**, 551, L63–L66

## Temporal Variability in GRB afterglows

19. \* “Smooth Light Curves from a Bumpy Ride: Relativistic Blast Wave Encounters a Density Jump”, Nakar, E., & **Granot, J.** 2007, MNRAS, **380**, 1744–1760
20. \* “Refreshed Shocks from a  $\gamma$ -ray burst”, **Granot, J.**, Nakar, E., & Piran, T. 2003, **Nature**, 426, 138–139
21. \* “Variability in GRB afterglows and GRB 021004” Nakar, E., Piran, T., & **Granot, J.** 2003, *New Astronomy*, **8**, 495–505



## Highly Magnetized Neutron Stars: Phenomenology, Theory

22. \* “The Sleeping Monster: NuSTAR observations of SGR 1806-20, 11 years after the Giant Flare”, Younes, G. A., et al. (**J. Granot** author #8 out of 8) ApJ, **851**, 17
23. “X-ray and Radio Observations of the Magnetar J1935+2154 During its 2014, 2015, and 2016 Outbursts”, Younes, G. A., et al. 2017 (**J. Granot** author #11 out of 13), ApJ, **847**, 85
24. \* “Burst and Outburst Characteristics of Magnetar 4U 0142+61”, Göğüş, et al. 2017 (**J. Granot** author #7 out of 13) ApJ, **835**, 68
25. \* “The High Frequency Radio Emission of the Galactic Center Magnetar SGR J1745 – 29 during a Transitional Period”, Gelfand, J., et al. 2017 (**J. Granot** author #4 out of 9), ApJ, 850, 53
26. \* “Learning About the Magnetar Swift J1834.9 – 0846 from its Wind Nebula”, **Granot, J.**, Gill, R., Younes, G., Gelfand, J., Harding, A., Kouveliotou, C., & Baring, M. G. 2017, MNRAS, **464**, 4895–4926
27. \* “Detection of Very Low Frequency Quasi-Periodic Oscillations in the 2015 Outburst of V404 Cygni”, Huppenkothen, D., *et al.* 2017 (**J. Granot** author #11 out of 15), ApJ, **834**, 90
28. \* “The wind nebula around magnetar Swift J1834.9 – 0846”, Younes, G., *et al.* 2016 (**J. Granot** author #5 out of 15), ApJ, 824, 138
29. \* “Five Year Fermi/GBM Magnetar Burst Catalog”, Collazzi, A. C., *et al.* 2015 (**J. Granot** author #8 out of 21), ApJS, **218**, 11
30. \* “Quasi-Periodic Oscillations in Short Recurring Bursts of SGR J1550–5418”, Huppenkothen, D., *et al.* 2014 (**J. Granot** author #10 out of 14), ApJ, **787**, 128
31. \* “Time Resolved Spectroscopy of SGR J1550–5418 for the Fermi/GBM Bursts”, Younes, G., *et al.* 2014 (**J. Granot** author #5 out of 19), ApJ, **785**, 52
32. \* “Quasi-Periodic Oscillations and Broadband Variability in Short Magnetar Bursts”, Huppenkothen, D., *et al.* 2013 (**J. Granot** author #8 out of 10), ApJ, **768**, 87
33. \* “Detection of spectral evolution in the bursts emitted during the 2008–2009 active episode of SGR J1550-5418”, von Kienlin, A., et al. 2012 (**J. Granot** author #4 out of 19), ApJ, **755**, 150
34. \* “Broadband Spectroscopy of SGR J1550-5418 Bursts”, Lin, L., *et al.* 2012 (**J. Granot** author #4 out of 12), ApJ, **756**, 54
35. \* “Magnetic Field Decay in Neutron Stars: from SGRs to Weak Field Magnetars”, Dall’Osso, S., **Granot, J.**, & Piran, T. 2012, MNRAS, **422**, 2878–2903

36. \* “SGR J1550–5418 Bursts during its Most Prolific Activity observed with Fermi/GBM”, van der Horst, A. J., *et al.* 2012 (**J. Granot** author #8 out of 37), *ApJ*, **749**, 122
37. \* “Burst and Persistent Emission Properties during the Recent Active Episode of the Anomalous X-ray Pulsar 1E 1841-045”, Lin, L., *et al.* 2011 (**J. Granot** author #10 out of 18), **ApJ Lett.**, 740, L16
38. \* “Fermi/GBM Observations of SGRJ0501+4516 Bursts”, Lin, L., *et al.* 2011 (**J. Granot** author #10 out of 30), *ApJ*, **739**, 87
39. \* “Discovery of a New Soft Gamma Repeater: SGR J0418+5729”, van der Horst, A. J., *et al.* 2010 (**J. Granot** author #8 out of 35) **ApJ Lett.**, 711, L1–L6
40. \* “Magnetar Twists: Fermi/Gamma-ray Burst Monitor (GBM) detection of SGR1550-5418”, Kaneko, Y., *et al.* 2010 (**J. Granot** author #4 out of 14) *ApJ*, **710**, 1335
41. \* “An infrared ring around the magnetar SGR 1900+14”, Wachter, S., *et al.* 2008 (**J. Granot** author #5 out of 7), **Nature**, 453, 626–628
42. \* “The Giant Flare from SGR 1806–20 and its Radio Afterglow”, Taylor, G. B., & **Granot, J.** 2006, **invited Brief Review, Mod. Phys. Lett. A**, 21, 2171–2188
43. \* “Diagnosing the Outflow from the SGR 1806-20 Giant Flare with Radio Observations”, **Granot, J.**, and 8 other co-authors, 2006, *ApJ*, **638**, 391–396
44. \* “The Growth, Polarization, and Motion of the Radio Afterglow of the SGR 1806-20 Giant Flare”, Taylor, G. B., *et al.* 2005 (**J. Granot** #4 of 11), *ApJ*, **634**, L89
45. \* “A Re-brightening of the Radio Nebula associated with the 2004 Dec. 27 Giant Flare from SGR 1806-20”, Gelfand, J. D., Lyubarsky, Y. E., Eichler, D., Gaensler, B. M., Taylor, G. B., **Granot, J.**, & 4 co-authors, 2005, **ApJ Lett.**, 634, L93–L96
46. \* “A giant  $\gamma$ -ray flare from the magnetar SGR 1806-20”, Palmer, D. M., *et al.* 2005 (**J. Granot** author #10 out of 28), **Nature**, 434, 1107–1109
47. \* “An expanding radio nebula produced by a giant flare from magnetar SGR 1806–20”, Gaensler, B. M., *et al.* 2005, (**J. Granot** author #7 out of 19), **Nature**, 434, 1104

## High Energy Neutrinos

48. \* “Neutrinos from Pulsar Wind Bubbles as Precursors to Gamma-Ray Bursts”, **Granot, J.**, & Guetta, D. 2003, **Phys. Rev. Lett.**, 90, 191102
49. \* “Neutrinos of Energy  $\sim 10^{16}$  eV from Gamma-Ray Bursts in Pulsar Wind Bubbles”, Guetta, D., & **Granot, J.** 2003, **Phys. Rev. Lett.**, 90, 201103

## X-ray Flashes, GRBs Viewed Off-Axis & Orphan Afterglows

50. “Jets and Gamma-Ray Burst Unification Schemes”, **Granot, J.**, & Ramirez-Ruiz, E. 2013, book chapter, in “Gamma-ray Bursts” (Cambridge University Press)
51. \* “A late time afterglow rebrightening in GRB081028”, Margutti, R., Genet, F., **Granot, J.**, *et al.* 2010, MNRAS, **402**, 46–64
52. \* “Rise and fall of the X-ray flash 080330: an off-axis jet?”, Guidorzi, C., Clemens, S. Kobayashi, S., **Granot, J.**, and 30 other co-authors, 2009, A&A, **499**, 439–453
53. \* “Afterglow Observations Shed New Light on the Nature of X-ray Flashes”, **Granot, J.**, Ramirez-Ruiz, E., & Perna, R. 2005, ApJ, **630**, 1003–1014
54. \* “An Off-Axis Model for GRB 031203”, Ramirez-Ruiz, E., **Granot, J.**, Kouveliotou, C., Woosley, S. E., Patel, S. K., & Mazzali, P. A. 2005, **ApJL**, 625, L91–L94
55. \* “The Detectability of Orphan Afterglows”, Nakar, E., Piran, T., & **Granot, J.** 2002, ApJ, **579**, 699–705
56. \* “Off-Axis Afterglow Emission from Jetted Gamma-Ray Bursts”, **Granot, J.**, Panaitescu, A., Kumar, P., & Woosley, S. E. 2002, **ApJ Lett.**, 570, L61–L64

## Angular Structure of GRB Jets

57. \* “The Structure and Dynamics of GRB Jets”, **Granot, J.** 2006, **invited review** for the proceedings of the conference “Triggerring Relativistic Jets”, held in Cozumel, Mexico, on March 28 to April 1, 2005; Rev. Mex. A&A, **27**, 140–165
58. \* “Revealing the Jet Structure of GRB 030329 with High Resolution Multicolor Photometry”, Gorosabel, J., Castro-Tirado, A. J., Ramirez-Ruiz, E., **Granot, J.**, *et al.* 2006, **ApJ Lett.**, 641, L13–L16
59. \* “Afterglow Light Curves from Impulsive Relativistic Jets with an Unconventional Structure”, **Granot, J.** 2005, ApJ, **631**, 1022–1031
60. \* “Two-Component Jet Models of Gamma-Ray Burst Sources”, Peng, F., Königl, A., & **Granot, J.** 2005, ApJ, **626**, 966–977
61. \* “Constraining the Structure of GRB Jets through the  $\log(N)$ - $\log(S)$  Distribution”, Guetta, D., **Granot, J.**, & Begelman, M.C. 2005, ApJ, **622**, 482–491
62. \* “Testing the Predictions of the Universal Structured GRB Jet Model”, Nakar, E., **Granot, J.**, & Guetta, D. 2004, **ApJ Lett.**, 606, L37–L40
63. \* “Constraining the Structure of Gamma-Ray Burst Jets through the Afterglow Light Curves”, **Granot, J.**, & Kumar, P. 2003, ApJ, **591**, 1086–1096

## Dynamics of GRB Jets: Numerical and Analytic studies

64. \* “On the Composition of GRBs’ Collapsar Jets”, Bromberg, O, **Granot, J.**, Piran, T. 2014, MNRAS, **450**, 1077–1088
65. \* “The dynamics of a highly magnetized jet propagating inside a star”, Bromberg, O., **Granot, J.**, Lyubarsky, Y., & Piran, T. 2014, MNRAS, **443**, 1532
66. \* “Gamma-Ray Burst Jets and their Radio Observations”, **Granot, J.**, & van der Horst, A. J. 2014, PASA, **31**, e008 (**invited review**, in a special issue on “Locating Astrophysical Transients”).
67. \* “Gamma-Ray Burst Jet Dynamics”, **Granot, J.** 2013, **invited review** for the proceedings of the *Fall 2012 GRB Symposium* (Marbella, Spain); EASPS, **61**, 141
68. \* “Scaling relations between numerical simulations and physical systems they represent”, **Granot, J.** 2012, MNRAS, **421**, 2610–2615
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