

Sabine Hossenfelder

Curriculum Vitae

(Status December 2015)

Surname: Hossenfelder
First Names: Sabine Karin Doris
Place of Birth: Frankfurt am Main / Germany
Date of Birth: September 18, 1976
Nationality: German
Family Status: Married, 2 children (* December 29, 2010)
Languages: German (native), English (fluent), French (if necessary)
Address: Frankfurt Institute for Advanced Studies
Ruth-Moufang-Straße 1
60438 Frankfurt am Main, Germany
Email: hossi@fias.uni-frankfurt.de

Education:

- Aug 2003: Ph. D., Theoretical Physics,
J. W. Goethe Universität Frankfurt (Germany),
'mit Auszeichnung' (excellent)
Adviser: Prof. Dr. H. Stöcker
Topic: "*Black Holes in Large Extra Dimensions*"
- Aug 2000: Diplom (M.S.), Physics,
J. W. Goethe Universität Frankfurt (Germany),
'mit Auszeichnung' (excellent)
Adviser: Prof. Dr. Dr. hc. mult. W. Greiner
Topic: "*Particle Production in Time Dependent Gravitational Fields*"
- July 1997: Vordiplom (B.S.), Mathematics,
J. W. Goethe Universität Frankfurt (Germany),
'sehr gut' (very good)

Employment:

- 12/2015 - 12/2017: Research Fellow, Frankfurt Institute for Advanced Studies,
Germany

- 09/2009 - 11/2015: Assistant Professor at Nordita, Stockholm, Sweden
- 11/2010 - 03/2012: Parental leave
- 09/2006 - 08/2009: Postdoc at Perimeter Institute, Waterloo, Ontario, Canada
- 09/2005 - 08/2006: Postdoctoral Research Fellow, Department of Physics, University of California, Santa Barbara
- 2004-08/2005: Postdoctoral Research Fellow, Department of Physics, University of Arizona
- 2003-2004: Research Fellow of the GSI (Heavy Ion Society), Darmstadt, Germany
- 1999-2001: Instructor/Teaching Assistant for courses in mechanics, electrodynamics and quantum mechanics at Frankfurt University
- 1997-1999: Research Graduate Student at Frankfurt University, Germany.

Honors, Awards, Grants:

- 12/2015, EUR 171,100 Research Grant from the German Science Foundation
- 11/2015, SEK 2,400,000 Research Grant from the Swedish Research Council
- 09/2015, US\$ 126,000 Research Grant from the Foundational Questions Institute¹
- 1st prize of the 2014 essay contest of the Foundational Questions Institute
- US\$ 6,000 from the Foundational Questions Institute to support the 2014 “Workshop for Science Writers: Quantum Theory”
- US\$ 25,000 from the Franklin Fetzer Fund² to support the 2014 “Workshop for Science Writers: Quantum Theory”
- SEK 70,000 from the Swedish Research Council for the 2013 “Workshop for Science Writers: Astrophysics and Cosmology”
- US\$ 10,000 from the Foundational Questions Institute to support the workshop on “Nonlocality: Aspects and Consequences”
- SEK 40,500 from the Swedish Research Council for the 2010 conference on “Experimental Search for Quantum Gravity”
- 3rd prize of the 2012 essay contest of the Foundational Questions Institute

¹<http://www.fqxi.org>

²<http://www.fetzer-franklin-fund.org>

- 2nd prize of the 2010 essay contest of the Foundational Questions Institute
- 2009-2012: Research grant by the DFG, Germany
(offered to but declined by applicant due to other offer)
- 2006-2011: Emmy Noether-Fellowship of the DFG, Germany
(offered to but declined by applicant, due to other offer)
- 2003-2004: Scholarship of the DAAD, Germany
- 2000-2003: Scholarship of the “Land Hessen”, Germany
- 1997-2000: Scholarship of the “Studienstiftung des Deutschen Volkes”, Germany

Publications:

Research Articles

1. S. Hossenfelder,
“A relativistic acoustic metric for planar black holes,”
Phys. Lett. B **752**, 13 (2016) [arXiv:1508.00732 [gr-qc]].
2. S. Hossenfelder,
“A No-go theorem for Poincaré-invariant networks,”
Class. Quant. Grav. **32**, no. 20, 207001 (2015) [arXiv:1504.06070 [gr-qc]].
3. S. Hossenfelder,
“Analog Systems for Gravity Duals,”
Phys. Rev. D **91**, no. 12, 124064 (2015) [arXiv:1412.4220 [gr-qc]].
4. S. Hossenfelder,
“The remote Maxwell demon as energy down-converter,”
arXiv:1408.3797 [cond-mat.stat-mech] (accepted for publication).
5. S. Hossenfelder,
“Disentangling the Black Hole Vacuum,”
Phys. Rev. D **91**, no. 4, 044015 (2015) [arXiv:1401.0288 [hep-th]].
6. S. Hossenfelder,
“Phenomenology of Space-time Imperfection II: Local Defects,”
Phys. Rev. D **88**, 124031 (2013) [arXiv:1309.0314 [hep-ph]].
7. S. Hossenfelder,
“Phenomenology of Space-time Imperfection I: Nonlocal Defects,”
Phys. Rev. D **88**, 124030 (2013) [arXiv:1309.0311 [hep-ph]].
8. S. Hossenfelder,
“A possibility to solve the problems with quantizing gravity,”
Phys. Lett. B **725**, 473 (2013) [arXiv:1208.5874 [gr-qc]].

9. S. Hossenfelder,
“*Quantum superpositions of the speed of light*,”
Found. Phys. **42**, 1452 (2012), arXiv:1207.1002 [gr-qc].
10. S. Hossenfelder,
“*Can we measure structures to a precision better than the Planck length?*,”
Class. Quant. Grav. **29**, 115011 (2012), arXiv:1205.3636 [gr-qc].
11. S. Hossenfelder,
“*Testing super-deterministic hidden variables theories*,”
Found. Phys. **41**, 1521 (2011) [arXiv:1105.4326 [quant-ph]].
12. X. Calmet, S. Hossenfelder, R. Percacci,
“*Deformed Special Relativity from Asymptotically Safe Gravity*,”
Phys. Rev. D **82**, 124024 (2010) [arXiv:1008.3345 [gr-qc]].
13. S. Hossenfelder,
“*Bounds on an energy-dependent and observer-independent speed of light from violations of locality*,” Phys. Rev. Lett. **104**, 140402 (2010) [arXiv:1004.0418 [hep-ph]]. Reported in A. Cho, “*Thought Experiment Torpedoes Variable-Speed-of-Light Theories*” Science 2, p 27, April 2010.
14. S. Hossenfelder,
“*The Box-Problem in Deformed Special Relativity*,”
arXiv:0912.0090 [gr-qc] (long version of previous item, not submitted for publication).
15. S. Hossenfelder, L. Modesto and I. Prémont-Schwarz,
“*A model for non-singular black hole collapse and evaporation*,”
Phys. Rev. D **81**, 044036 (2010) [arXiv:0912.1823 [gr-qc]].
16. S. Hossenfelder and L. Smolin,
“*Phenomenological Quantum Gravity*,”
Physics in Canada, Vol. 66 No. 2, Apr-June, p 99-102 (2010), arXiv:0911.2761v1 [physics.pop-ph].
17. S. Hossenfelder and L. Smolin,
“*Conservative solutions to the black hole information problem*,”
Phys. Rev. D **81**, 064009 (2010) [arXiv:0901.3156 [gr-qc]].
18. S. Hossenfelder,
“*A Bi-Metric Theory with Exchange Symmetry*,”
Phys. Rev. D **78**, 044015 (2008) [arXiv:0807.2838 [gr-qc]].
19. S. Hossenfelder,
“*A Note on Quantum Field Theories with a Minimal Length Scale*,”
Class. Quant. Grav. **25**, 038003 (2008) arXiv:0712.2811 [hep-th].
20. S. Hossenfelder,
“*Multi-particle states in deformed special relativity*,”
Phys. Rev. D **75**, 105005 (2007) [arXiv:hep-th/0702016].
21. S. Hossenfelder,
“*Deformed Special Relativity in Position Space*,”
Phys. Lett. B **649**, 310 (2007) [arXiv:gr-qc/0612167].

22. K. R. Dienes and S. Hossenfelder,
“A hybrid model of neutrino masses and oscillations: Bulk neutrinos in the split-fermion scenario,”
Phys. Rev. D **74**, 065013 (2006) [arXiv:hep-ph/0607112].
23. S. Hossenfelder,
“Interpretation of quantum field theories with a minimal length scale,”
Phys. Rev. D **73**, 105013 (2006) [arXiv:hep-th/0603032].
24. S. Hossenfelder,
“Anti-Gravitation,”
Phys. Lett. B **636**, 119 (2006) [arXiv:gr-qc/0508013].
25. S. Hossenfelder,
“Self-consistency in theories with a minimal length,”
Class. Quantum Grav. **23** (2006) 1815-1821 [arXiv:hep-th/0510245].
26. S. Hossenfelder, B. Koch and M. Bleicher,
“Trapping black hole remnants,”
arXiv:hep-ph/0507140.
27. B. Koch, M. Bleicher and S. Hossenfelder,
“Black hole remnants at the LHC,”
JHEP **10** (2005) 053 [arXiv:hep-ph/0507138].
28. U. Harbach and S. Hossenfelder,
“The Casimir effect in the presence of a minimal length,”
Phys. Lett. B **632**, 379 (2006) [arXiv:hep-th/0502142].
29. S. Hossenfelder,
“Running Coupling with Minimal Length,”
Phys. Rev. D **70**, 105003 (2004) [arXiv:hep-th/0405127].
30. S. Hossenfelder,
“Suppressed Black Hole Production from Minimal Length,”
Phys. Lett. B **598**, 92 (2004) [arXiv:hep-th/0404232].
31. S. Hossenfelder, M. Bleicher and H. Stöcker,
“Observables from Large Extra Dimensions,”
Int. J. Mod. Phys. **D 13**, 7 (2004) 1453-1460.
32. K. Poppenhaeger, S. Hossenfelder, S. Hofmann and M. Bleicher,
“The Casimir effect in the presence of compactified universal extra dimensions,”
Phys. Lett. B **582** (2004) 1 [arXiv:hep-th/0309066].
33. U. Harbach, S. Hossenfelder, M. Bleicher and H. Stöcker,
“Probing the minimal length scale by precision tests of the muon $g-2$,”
Phys. Lett. B **584** (2004) 109 [arXiv:hep-ph/0308138].
34. S. Hossenfelder, M. Bleicher, S. Hofmann, J. Ruppert, S. Scherer and H. Stöcker,
“Collider signatures in the Planck regime,”
Phys. Lett. B **575** (2003) 85 [arXiv:hep-th/0305262].

35. S. Hossenfelder, M. Bleicher, S. Hofmann, H. Stöcker and A. V. Kotwal,
“*Black hole relics in large extra dimensions,*”
Phys. Lett. B **566** (2003) 233 [arXiv:hep-ph/0302247].
36. S. Hossenfelder, D. J. Schwarz and W. Greiner,
“*Particle production in time-dependent gravitational fields: The expanding mass shell,*”
Class. Quant. Grav. **20** (2003) 2337 [arXiv:gr-qc/0210110].
37. M. Bleicher, S. Hofmann, S. Hossenfelder and H. Stöcker,
“*Black hole production in large extra dimensions at the Tevatron: A chance to observe a first glimpse of TeV scale gravity,*”
Phys. Lett. **548** (2002) 73 [arXiv:hep-ph/0112186].
38. S. Hofmann, M. Bleicher, L. Gerland, S. Hossenfelder, K. Paech and H. Stöcker,
“*Tevatron - Probing Tev-Scale Gravity Today,*”
J. Phys. G **28** (2002) 1657.
39. S. Hossenfelder, S. Hofmann, M. Bleicher and H. Stöcker,
“*Quasi-stable black holes at LHC,*”
Phys. Rev. D **66** (2002) 101502 [arXiv:hep-ph/0109085].

Book Chapters and Review Articles

1. S. Hossenfelder,
“*The Soccer-ball Problem,*”
Invited review for the SIGMA Special Issue on Deformations of Space-Time, arXiv:1403.2080 [gr-qc].
2. S. Hossenfelder,
“*Theory and Phenomenology of Spacetime Defects,*”
Invited review, AHEP 950672 (2014), arXiv:1401.0276 [hep-ph].
3. S. Hossenfelder,
“*Minimal Length Scale Scenarios for Quantum Gravity,*”
Living Rev. Rel. **16**, 2 (2013), [arXiv:1203.6191 [gr-qc]].
4. S. Hossenfelder,
“*Experimental Search for Quantum Gravity,*”
Invited review, in “*Classical and Quantum Gravity: Theory, Analysis and Applications,*”
Nova Science Publishers (2011), arXiv:1010.3420 [gr-qc].
5. S. Hossenfelder,
“*Shooting in the Dark,*”
To appear in “*Are we there yet? The Search for a Theory of Everything,*” Edited by
M. Emam, Bentham Science Publishers.
6. S. Hossenfelder,
“*Science in the 21st Century,*”
To appear in *Knowledge and Organizations*, Edited by P. Meusburger and E. Wunder,
Springer.

7. S. Hossenfelder,
“*The Marketplace of Ideas,*”
In “*The Open Laboratory: The Best Writing on Science Blogs 2007,*” pp. 21-29, Edited by R. A. Cartwright.
8. S. Hossenfelder,
“*Micro Black Holes,*”
In “*The Open Laboratory: The Best Writing on Science Blogs 2006,*” pp. 82-90, Edited by B. Zivkovic.
9. S. Hossenfelder,
“*What black holes can teach us,*”
In “*Focus on Black Hole Research,*” pp. 155-192, Nova Science Publishers (2005) [arXiv:hep-ph/0412265].
10. S. Hossenfelder,
“*The Minimal Length and Large Extra Dimensions,*”
Mod. Phys. Lett. A 19, 37 (2004) 2727, brief invited review, [arXiv:hep-ph/0410122].

Proceedings

1. S. Hossenfelder
“*Testing Superdeterministic Conspiracy,*”
arXiv:1401.0286 [quant-ph], Proceedings of the conference ‘Emergent Quantum Mechanics’, Vienna, October 3-6, 2013
2. S. Hossenfelder,
“*Antigravitation,*”
arXiv:0909.3456, Proceedings of the 17th International Conference on Supersymmetry and the Unification of Fundamental Interactions in Boston, June 2009
3. S. Hossenfelder,
“*Observables of Quantum Gravity at the LHC,*”
Proceedings of the workshop *From Emergent to Quantum Gravity: Theory and Phenomenology*, 11-15 Jun 2007, PoS(QG-Ph)018.
4. S. Hossenfelder,
“*Phenomenological quantum gravity,*”
AIP Conf. Proc. **903**, 463 (2007) [arXiv:hep-th/0611017].
5. S. Hossenfelder,
“*News about TeV-scale Black Holes,*”
Nucl. Phys. A **774**, 865 (2006) [arXiv:hep-ph/0510236].
6. U. Harbach and S. Hossenfelder,
“*Modification of the Casimir effect due to a minimal length scale,*”
Proceedings of Lake Louise Winter Institute: Fundamental Interactions, Lake Louise, Alberta, Canada, 20-26 Feb 2005, [arXiv:hep-th/0505010].
7. S. Hossenfelder,
“*Large Extra Dimensions and the Minimal Length,*”
Czech. J. Phys. **55**, B809 (2005) [arXiv:hep-ph/0409350].

8. U. Harbach, S. Hossenfelder, M. Bleicher and H. Stöcker,
“Signatures of a minimal length scale in high precision experiments,”
Proceedings of 42nd International Winter Meeting on Nuclear Physics, Bormio, Italy, Feb
2004 [arXiv:hep-ph/0404205].
9. S. Hossenfelder, M. Bleicher and H. Stöcker,
“Signatures of Large Extra Dimensions,”
Proceedings of the NATO Advanced Study Institute: NATO Science Series, Structure and
Dynamics of Elementary Matter II/166 (2004), Kluwer Academic publishers [arXiv:hep-
ph/0405031].
10. S. Hossenfelder,
“Large Extra Dimensions and the Minimal Length,”
Proceedings of the SUSY 2003, Tucson, Arizona, June 2003, to be published.
11. S. Hofmann, M. Bleicher, L. Gerland, S. Hossenfelder, S. Schwabe and H. Stocker,
“Suppression of high- $P(T)$ jets as a signal for large extra dimensions and new estimates of
lifetimes for meta stable micro black holes: From the early universe to future colliders,”
Proceedings of the International Workshop on the Physics of the Quark Gluon Plasma,
Palaiseau, France, 4-7 Sep 2001 [arXiv:hep-ph/0111052].

Comments and Replies

1. S. Hossenfelder,
“Comment on the black hole firewall,”
arXiv:1210.5317 [gr-qc].
2. S. Hossenfelder,
“Comment on arXiv:1104.2019, ‘Relative locality and the soccer ball problem’ by Amelino-
Camelia et al,”
Phys. Rev. D **88**, 028701 (2013) [arXiv:1202.4066 [hep-th]].
3. S. Hossenfelder,
“Comment on arXiv:1007.0718 by Lee Smolin,”
arXiv:1008.1312 [gr-qc].
4. S. Hossenfelder,
“Reply to arXiv:1006.2126 by Giovanni Amelino-Camelia et al,”
arXiv:1006.4587 [gr-qc].
5. S. Hossenfelder,
“Comments on Nonlocality in Deformed Special Relativity, in reply to arXiv:1004.0664 by
Lee Smolin and arXiv:1004.0575 by Jacob et al,”
arXiv:1005.0535 [gr-qc].
6. S. Hossenfelder,
“Comments on and Comments on Comments on Verlinde’s paper “On the Origin of Gravity
and the Laws of Newton”,”
arXiv:1003.1015 [gr-qc].
7. S. Hossenfelder,
“Comment on “No-go theorem for bimetric gravity with positive and negative mass”,”
arXiv:0909.2094 [gr-qc].

Other publications

1. S. Hossenfelder
“*The Free Will Function*,”
arXiv:1202.0720 [physics.hist-ph]
2. S. Hossenfelder
“*On the Problem of Measuring Happiness*,”
Available at SSRN: <http://ssrn.com/abstract=1754423>

Recent Talks and Lectures (past 2008):

1. December 2015, Workshop “Why Trust a Theory,” Munich Center for Mathematical Philosophy, Munich, Germany
“*Lost in Math*”
2. November 2015, Keynote lecture, Munin Conference for Scholarly Publishing, Tromso, Norway
“*Peer Review and its Discontents*”
3. October 2015, Seminar, Nordita, Stockholm, Sweden
“*Analog Duality*”
4. October 2015, Colloquium, Oslo University, Norway
“*Quantum Gravity Phenomenology*”
5. July 2015, Seminar, GSI, Darmstadt, Germany
“*Analog Duality*”
6. April 2015, Seminar, University of Waterloo, Canada
“*Analog Duality*”
7. April 2015, Seminar, Perimeter Institute, Waterloo, Canada
“*Analog Duality*”
8. October 2014, Workshop ‘Models of Gravity’, Hanover, Germany
“*Spacetime Defects*”
9. September 2014, Conference ‘Experimental Search for Quantum Gravity’, Trieste, Italy
“*Spacetime Defects*”
10. April 2014, Sussex Graduate School ‘From Classical to Quantum Gravity’
“*Experimental Search for Quantum Gravity*”
11. February 2014, Nottingham, UK, Seminar
“*Quantum Gravity Phenomenology*”
12. February 2014, Oxford, UK, Workshop ‘The Structure of Gravity and Spacetime’
“*Planck Scale Phenomenology*”
13. October 2013, Vienna, Austria, Conference on ‘Emergent Quantum Gravity’
“*Testing Superdeterministic Conspiracy*”

14. September 2013, Helsinki, Finland, Seminar
“*News from Quantum Gravity Phenomenology*”
15. July 2013, Aachen, Germany, Seminar
“*News from Quantum Gravity Phenomenology*”
16. June 2013, Bielefeld, Germany, Lecture
“*Minimal Length Scale Models for Quantum Gravity*”
17. May 2013, Munich, Germany, Workshop ‘Quantum Gravity in Perspective’
“*Quantum Gravity Phenomenology*”
18. April 2013, Reykjavic, Iceland, Seminar
“*Quantum Gravity Phenomenology*”
19. March 2013, Bergen, Norway, Seminar
“*Quantum Gravity Phenomenology*”
20. July 2012, Marcel Grossmann Meeting, Stockholm
“*How to beat a cosmic speeding ticket*”
21. July 2012, Marcel Grossmann Meeting, Stockholm
“*Black Hole Information – What’s the problem?*”
22. January 2012, Lecture, Nordita Winterschool, Stockholm, Sweden
“*Experimental Search for Quantum Gravity*”
23. October 2011, Colloquium, Jyväskylä, Finland
“*News from Quantum Gravity Phenomenology*”
24. April 2011, DPG conference, Karlsruhe, Germany
“*News from Quantum Gravity Phenomenology*”
25. June 2010, Workshop “Black Holes in a Violent Universe”, Bonn, Germany
“*Black Hole Information – What’s the problem?*”
26. March 2010, Group Discussion, Perimeter Institute, Waterloo, Canada
“*The Box-problem in Deformed Special Relativity*”
27. January 2010, Seminar, Sussex University, UK
“*Phenomenological Quantum Gravity*”
28. January 2010, Seminar, King’s College London, UK
“*Phenomenological Quantum Gravity*”
29. December 2009, Seminar, Utrecht University, The Netherlands
“*Phenomenological Quantum Gravity*”
30. November 2009, Colloquium, Frankfurt University, Germany
“*Phenomenological Quantum Gravity*”
31. November 2009, Seminar, Albert Einstein Institute, Potsdam, Germany
“*Phenomenological Quantum Gravity*”
32. October 2009, Atlanta Conference on Science and Innovation Policy, Atlanta
“*The Marketplace of Ideas*”

33. September 2009, Uppsala University, Seminar
“*Phenomenological Quantum Gravity*”
34. July 2009, FQXi Conference, Ponta Delgada, Azores
“*Antigravitation*”
35. June 2009, SUSY 2009, Boston
“*Antigravitation*”
36. May 2009, Denver, USA, APS Spring Meeting
“*Phenomenological Quantum Gravity*”
37. March 2009, Nordita, Stockholm, Sweden, Seminar
“*Phenomenological Quantum Gravity*”
38. February 2009, Santa Fe Institute, Santa Fe, USA, Seminar
“*At the Frontiers of our Knowledge*”

Conferences and Workshops:

- Local organizing committee of the conference *The Spacetime Odyssey Continues*, June 2015, Stockholm, Sweden
- Organizing committee of the conference *Experimental Search for Quantum Gravity*, September 2014, Trieste, Italy
- Local organizing committee of the workshop *Physics for Science Writers: Quantum Theory*, August 2014, Stockholm, Sweden
- Local organizing committee of the workshop *Physics for Science Writers: Astrophysics and Cosmology*, May 2013, Stockholm, Sweden
- Local organizing committee of the program *Perspectives of Fundamental Cosmology*, November 2012, Stockholm, Sweden
- Organizing committee of the conference *Experimental Search for Quantum Gravity*, October 2012, Waterloo, Canada, website: pitp.ca/esqg2012
- Local organizing committee of the workshop *Nonlocality: Aspects and Consequences*, June 2012, Stockholm, Sweden
- Local organizing committee of the conference *Experimental Search for Quantum Gravity*, July 2010, Stockholm, Sweden, website: nordita.org/esqg2010
- Local organizing committee of the conference *Science in the 21st Century*, Sep. 2008, Waterloo, Canada, website: Science21stCentury.org
- Local organizing committee of the conference *Experimental Search for Quantum Gravity* 2007, Waterloo, Canada, website: pitp.ca/esqg07
- Local Organizing committee of the conference *Strangeness in Quark Matter (SQM)* 2001, Frankfurt, Germany

Misc

- Member of the German Physical Society
- Member of the American Physical Society
- Member of the Foundational Questions Institute
- Referee for: Physics Letters A, Physics Letters B, Classical and Quantum Gravity, Journal of High Energy Physics, Nature Physics, Physical Review Letters, Physical Review D, Journal of Physics A, Journal of Physics G, General Relativity and Gravitation, Foundations of Physics, International Journal of Theoretical Physics, Annals of Physics, Physica Scripta, International Journal of Modern Physics A, SIGMA, Canadian Journal of Physics (and some others). For recent review activity, please see my profile at Publons.
- I was interviewed by the Online Magazine Inverse about “Theoretical Physics, the Scientific Method, and the Damage Done
- An article about my research appeared in the Finnish magazine ‘Tähdet ja avaruus’ (Stars and Space), March 2013, written by Laura Koponen.
- An article about my research appeared in the Swedish magazine ‘Populär Astronomi’ (Popular Astronomy) in December 2012, written by Laura Koponen.
- I wrote a feature article on the topic ‘Can we unify quantum mechanics and gravity?’ for the IOP membership magazine ‘Physics World’ in October 2013
- I was named by the Financial Times Magazine among ‘The next big names in physics’ (online available, October 18, 2013).
- I’ve organized the production of several short video clips about research and researchers at Nordita.
- I have written several book reviews for Physics Today and Physics World.
- I wrote two articles for the Swedish popular science magazine ‘Forskning och Framsteg’ (Research and Progress). One (on the speed of light limit in Special Relativity) was published in the issue Feb 2014, the other (on quantum gravity phenomenology) in the issue March 2015. I wrote these articles in English; they were translated to and appeared in Swedish.
- I write a popular weblog: backreaction.blogspot.com about theoretical physics and life in academia. My blog has to date about 1400 posts and about 1500 views per day. I presently write about one blogpost per week, mostly on weekends.
- I also write once per month for the Forbes collection ‘Starts With a Bang’, edited by Ethan Siegel; these articles on current topics in high energy physics or cosmology typically get between 10 and 50 thousand views each.
- Two of my blogposts have recently been translated into Italian for the website of Le Scienze, the Italian edition of Scientific American.
- I wrote an article for the special issue of Scientific American to commemorate the 100th anniversary of General Relativity. It appear in September 2015.