

# Curriculum Vitae

## Eli Ben-Naim

### Deputy Group Leader

Condensed Matter and Complex Systems  
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### Editor

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### EDUCATION:

- **Ph.D.**, Physics, Boston University, 1994.
- **B.Sc.**, *summa cum laude*, Physics and Mathematics, Hebrew University, Israel, 1990.

### EMPLOYMENT:

Los Alamos National Laboratory, Theoretical Division, 1996-.

- Deputy Group Leader, Condensed Matter and Complex Systems, 2009-.
- Group Leader, Complex Systems, 2006-2009.
- Technical Staff Member, Complex Systems Group, 1998-2006
- Postdoctoral Research Fellow, Center for Nonlinear Studies, 1996-1998.

University of Chicago, Department of Physics, 1994-1996.

- Postdoctoral Research Associate, James Franck Institute, 1994-1996.

### RESEARCH:

- Statistical Physics.
- Nonlinear Dynamics.
- Soft Matter.
- Stochastic Processes.

## **PRIZES, AWARDS, RECOGNITIONS:**

- American Physical Society, Elected Fellow, 2008.
- American Physical Society, Outstanding Referee (Inaugural Selection) 2008.
- Institute of Physics (UK), Elected Fellow, 2006.
- Los Alamos Achievement Award, 2002, 2007.
- Alon Young Investigator Fellowship, Israel, 2002.
- Director's Postdoctoral Fellowship, Los Alamos National Laboratory, 1996.
- Goldhaber Prize, Boston University, 1992.
- Israel Parliament Prize<sup>1</sup>, 1989, 1990.
- Rector Prize<sup>2</sup>, Hebrew University, 1989, 1990.
- Freshman Award, Hebrew University, 1988 .

## **PROFESSIONAL SERVICE:**

- Physical Review E, Editor, 2012-.
- Journal of Statistical Mechanics, Editorial Board, 2011-2012.
- European Journal of Physics B, Editorial Board, 2010-2012.
- Journal of Physics A, Editorial Board, 2009-2012.
- Physical Review E, Editorial Board, 2004-2006.
- Center for Nonlinear Studies, Executive Committee, 1998-2006.
- American Physical Society, Topical Group on Statistical and Nonlinear Physics, Executive Committee, 2006-2009 & 2013-2016.

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<sup>1</sup>Awarded to top 0.1% students in the country.

<sup>2</sup>Awarded to top 0.5% students in the university.

## POSTDOCS:

- Ivan Christov, Distinguished Feynman Fellow, Applied Mathematics, 2013-2015.  
[Assistant Professor, Purdue University]
- Eric Daub, Postdoctoral Research Fellow, Earthquakes, 2011-2013.  
[Assistant Professor, University of Memphis]
- Moran Wang, Distinguished Oppenheimer Fellow, Continuum Mechanics, 2008-2010.  
[Professor, Tsinghua University, China]
- David Roberts, Distinguished Feynman Fellow, Theoretical Physics, 2007-2009.  
[Diplomat, US State Department]
- Matthew Hastings, Distinguished Feynman Fellow, Granular Chains, 2001-2002.  
[Research Scientist, Microsoft]
- Zahir Daya, Granular Chains, 2000-2003.  
[Research Scientist, Canadian Research Council]
- Zoltan Toroczkai, Director Fellow, Statistical Physics, 1999-2001.  
[Professor, Notre Dame]

## STUDENTS:

- Pearson Miller, Yale University, Extreme statistics [119], 2013.
- Wenfeng Kang, Umass Amherst, Granular gases [104], 2009.
- Ziya Kalay, University of New Mexico, Random trees [124], 2008.
- Jin-Sup Kim, Seoul National University, Social dynamics [87], 2006.
- Federico Vazquez, Boston University, Social dynamics [82, 84, 89, 116], 2005-2006.
- Benjamin Machta, Brown University, Granular materials [78], 2005.
- Xiabo Nie, Johns Hopkins University, Granular materials [42, 53], 1999-2002.
- Istvan Daruka, Notre Dame University, Surface growth [32], 1999.
- Elizabeth Grossman, University of Chicago, Granular hydrodynamics [26], 1995-1996.
- Tong Zhuo, University of Chicago, Granular hydrodynamics [26], 1995-1996.

## CONFERENCE ORGANIZING COMMITTEES:

18. Applied Statistical Physics, Santa Fe, NM, May 1-5, 2017.
17. SIAM Dynamics Systems conference, Snowbird, UT, 2013.
16. Giant Fluctuations in Population Dynamics, Leiden, Netherlands, August 3-7, 2009.
15. Complexity of Biological and Soft Materials, Santa Fe, NM, May 21-25, 2007.
14. Random Shapes, IPAM, Los Angeles, CA, April 16-20, 2007.
13. Expanding Horizons, Los Alamos, NM, November 3-4, 2006.
12. Socio-Technical Systems, Los Alamos, NM, August 14-18, 2006.
11. Dynamic Days 2005, Long Beach, CA, January 5-9, 2005.
10. Statistical Physics of Complex Systems, Los Alamos, NM, July 26-August 6, 2004.
9. Statistical Physics of Macromolecules, Santa Fe, NM, May 12-17, 2004,
8. Networks: Structure, Function, and Dynamics, Santa Fe, NM, June 12-16, 2003.
7. Granular Flow and Kinetics, Argonne, IL, January 19-21, 2003.
6. Principles of Soft Matter, Santa Fe, NM, May 21-25, 2001.
5. Sciences Impacting our Future, Los Alamos, NM, June 5-8, 2001.
4. Complex Interactions in Granular Materials, Argonne, IL, April 7-8, 2000.
3. Granular Materials, Albuquerque, NM, June 20-22, 1998.
2. Nonequilibrium Dynamics, Los Alamos, NM, April 20-22, 1998.
1. Arizona Days, Tucson, AZ, January 24-25, 1997.

## INVITED TALKS:

### International Meetings

23. Young Scientists Symposium: “Self-organizing systems”, IST, Vienna, Austria, 2015.
22. Fluctuations in Population Biology, LC, Leiden, Netherlands, 2014.
21. Statistical Dynamics of Complex Systems, Arrabida, Portugal, 2013.
20. International Congress on Industrial and Applied Mathematics, Vancouver, 2011.
19. International Congress on Industrial and Applied Mathematics, Vancouver, 2011.
19. Granular Physics (School) Raman Research Institute, Bangalore, India, 2011.
18. Nonequilibrium Dynamics of Interacting Particle Systems, Warwick, England, 2010.
17. Giant Fluctuations in Population Dynamics, LC, Leiden, Netherlands, 2009.
16. Kinetic and Mean-field Models, ICMS, Edinburgh, Scotland, 2009.
15. Kinetics and statistical methods for complex particle systems, Lisbon, Portugal, 2009.
14. Non-local Effects in Pattern Forming Systems, Haifa, Israel, 2009.
13. Journal of Physics A Editorial Board Meeting, London, England, 2009.
12. Granular Gases, Thurnau, Germany, 2008.
11. Knots and Macromolecules, Venice, Italy, 2006.
10. Dynamics Days Asia Pacific, Pohang, Korea, 2006.
9. Nonequilibrium Statistical Mechanics, Newton Institute, Cambridge, England, 2006.
8. Pattern Formation and Transport Phenomena, Joao Pessoa, Brazil, 2005.
7. From Glasses to Gases in Granular Matter, CECAM, Lyon, France, 2005.
6. Nonequilibrium Statistical Physics, MPIPKS, Dresden, Germany, 2003.
5. Pattern Formation in Granular materials and Soft Matter, Benasque, Spain, 2003.
4. Formation of Structures in Granular Matter, LC, Leiden, Netherlands, 2002.
3. Granular Gases, CECAM, Lyon, France, 2002.
2. Dynamics of Nonequilibrium Systems, Porto, Portugal, 1999.
1. Collective Phenomena in Physics, University of the West Indies, Barbados, 1998.

## National Meetings

34. Applied Statistical Physics, Santa Fe, NM, 2017.
33. Kinetic Description of Chemical and Biological Processes, Ames, IA, 2017.
32. Random Graph Processes, Austin, TX, 2016.
31. Control of Social Dynamics, Camden, NJ, 2014.
30. Novel Applications of Statistical Mechanics Boston, MA 2014.
29. Deep Computations in statistical Physics, SFI, Santa Fe, NM 2013.
28. Kinetic Description of Social Dynamics, College Park, MD, November 2012
27. 103th Statistical Mechanics Meeting, Rutgers University, Piscataway, NJ, 2010.
26. Analytical and Numerical Issues for Kinetic and Statistical flows, Austin, TX, 2009.
25. Physics of Algorithms, CNLS, Santa Fe, NM, 2009.
24. Asymptotic Methods and Kinetics Theory, IPAM, Los Angeles, CA, 2009.
23. Quantum Mechanics in the Complex Domain, St. Louis, MO, 2009.
22. Large Deviations, University of Michigan, Ann Arbor, MI, 2007.
21. Boston University Physics Department Alumni Reunion, Boston, MA 2007.
20. Algorithms, Inference, and Statistical Physics, CNLS, Santa Fe, NM 2007.
19. Self-Organization in Active Biological Systems, Argonne, IL, 2007.
18. Random Shapes, IPAM, Los Angeles, CA, 2007.
17. Crime Hot Spots, IPAM, Los Angeles, CA, 2007.
16. Social and Group Dynamics, Sante Fe Institute, Santa Fe, NM, 2005.
15. Granular Physics, KITP, Santa Barbara, CA, 2005.
14. Dynamics Days, Chapel Hill, NC, 2004.
13. Particulate Flow and Control, Cleveland, OH, 2003.
12. Granular Hydrodynamics and Related Topics, Albuquerque, NM, 2003.
11. Arizona Days, University of Arizona, Tucson AZ, 2003.

10. 88th Statistical Mechanics Meeting, Rutgers University, Piscataway NJ, 2002.
9. Granular Flow and Kinetics, ANL, Argonne, IL, 2002.
8. Statistical Physics and Computational Complexity, CNLS, Santa Fe, NM, 2001.
7. Soft Matter as Nonlinear Science, Irvine, CA, 2001.
6. Duke Days, Duke University, Durham, NC, 2001.
5. Granular Matter, Argonne National Laboratory, Argonne, IL, 2000.
4. 82nd Statistical Mechanics Meeting, Rutgers University, Piscataway, NJ, 1999.
3. Arizona Days, University of Arizona, Tucson, AZ, 1999.
2. Granular Matter, Argonne National Laboratory, Argonne, IL, 1998.
1. Arizona Days, University of Arizona, Tucson, AZ, 1997.

#### Professional Society Meetings

10. American Physical Society March Meeting, Baltimore, MD, 2016.
9. IEEE InfoCom & NetSciCom 2012, Orlando, FL, March 2012.
8. Society for Industrial and Applied Mathematics, PDE meeting, San Diego, CA, 2011.
8. Society for Industrial and Applied Mathematics, PDE meeting, Miami, FL, 2009.
7. Society for Industrial and Applied Mathematics Annual Meeting, San Diego, CA, 2008.
6. American Mathematical Society Annual meeting, San Diego, CA, 2008.
5. American Mathematical Society Annual meeting, San Diego, CA, 2008.
4. American Physical Society March Meeting, Los Angeles CA, 2005.
3. Society for Industrial and Applied Mathematics Materials, Los Angeles, CA 2004.
2. American Physical Society March Meeting, Indianapolis, IN, 2002.
1. American Physical Society March Meeting, Los Angeles, CA, 1998.

#### Colloquia and Seminars

- Virginia Polytechnic University, Blacksburg, VA, 1998, 2015.
- Clark University, Worcester MA, 2012.

- University of Maryland, College Park, MD, 2001, 2011.
- University of New Mexico, Albuquerque, NM, 1998, 2002, 2006, 2008, 2008, 2009, 2017.
- University of Edinburgh, Edinburgh, Scotland, 2009.
- Notre Dame University, Notre Dame, IN, 1996, 2008.
- University of Chicago, Chicago IL, 1994, 2008.
- Washington University, St. Louis, MO, 2007.
- Sandia National Laboratory, Albuquerque, NM 2005.
- University of Arizona, Tucson, AZ 1997, 2004.
- University of South Carolina, Columbia, SC, 2004.
- Florida State University, Tallahassee, FL, 2002.
- Emory University, Atlanta, GA, 2001.
- Yale University, New Haven, CT, 2000.
- Boston University, Boston, MA, 1995, 2000.
- Duke University, Durham, NC, 1999, 2000.
- Johns Hopkins University, Baltimore, MD, 2000.
- University of Toronto, Toronto, Canada, 2000.
- Princeton University, Princeton, NJ, 1999.
- University of Virginia, Charlottesville, VA, 1999.
- Denver University, Denver, CO, 1999.
- Colorado State University, Fort Collins, CO, 1999.
- CEA, Saclay, France, 1999.
- University of Colorado, Boulder, CO, 1998.
- University of Akron, Akron, OH, 1998.
- University of Missouri-Rolla, Rolla, MO, 1998.
- University of Western Ontario, London ON, 1997.



- Central Michigan University, Mt. Pleasant, MI, 1997.
- Penn State University, University Park, PA, 1997.
- Lehigh University, Bethlehem, PA, 1997.
- Center for Nonlinear Studies, Los Alamos, NM, 1996.
- The Technion, Israel, 1996.

#### Summer School Lectures

- Complex Systems Summer School, Santa Fe Institute, Santa Fe, NM 2012.
- School on Statistical Physics, Raman Institute, Bangalore, India, 2011.
- Los Alamos Summer School, 2001, 2002, 2006, 2007, 2008.
- NATO Summer School, Benasque, Spain, 2003.

	source		citations		H index		i-100 index		i-10 index		
	Web of Science		3208		28		5		69		
	Google Scholar		5375		37		11		84		
authors	1	2	3	4	5	6	average	author order	first	middle	last
publications	3	78	33	15	3	3	2.5	publications	94	13	29
journal	Phys. Rev. E			J. Phys. A		Phys. Rev. Lett.		EPL	J. Stat. Mech.		
publications	40			30		10		8	8		

### TEXTBOOK:

A Kinetic View of Statistical Physics,  
Cambridge University Press (2010),  
P. L. Krapivsky, S. Redner, and E. Ben-Naim.

### EDITED VOLUME:

Complex Networks,  
Springer, Berlin (2004),  
E. Ben-Naim, H. Frauenfelder, Z. Toroczkai, Editors.

### PUBLICATIONS:

133. Extinction and Survival in Two-Species Annihilation,  
Physical Review E **97**, 022112 (2018),  
J.G. Amar, E. Ben-Naim, S.M. Davis, and P.L. Krapivsky.
132. Aggregation-fragmentation-diffusion model for trail dynamics,  
Physical Review E **96**, 012142 (2017),  
Kyle Kawagoe, Greg Huber, Marc Pradas, Michael Wilkinson, Alain Pumir, and Eli Ben-Naim.
131. Kinetics of Aggregation with Choice,  
Physical Review E **94**, 062119 (2016),  
E. Ben-Naim and P. L. Krapivsky.
130. Kinetics of Diffusion-Controlled Annihilation with Sparse Initial Conditions,  
Journal of Physics A **49**, 504005(2016),  
E. Ben-Naim and P. L. Krapivsky.
129. Escape and Finite-Size Scaling in Diffusion-Controlled Annihilation,  
Journal of Physics A **49**, 504004 (2016),  
E. Ben-Naim and P. L. Krapivsky.

128. Maxima of Two Random Walks: Universal Statistics of Lead Changes,  
Journal of Physics A **49**, 205003 (2016),  
E. Ben-Naim, P. L. Krapivsky, and J. Randon-Furling.
127. Scaling Exponents for Ordered Maxima,  
Physical Review E **92**, 062139 (2015),  
E. Ben-Naim and P. L. Krapivsky.
126. Pattern Selection and Super-patterns in the Bounded Confidence Model,  
EPL **112**, 18002 (2015),  
E. Ben-Naim and A. Scheel.
125. Irreversible Reactions and Diverse Escape: Stationary Properties,  
Journal of Statistical Mechanics P05003 (2015),  
P. L. Krapivsky and E. Ben-Naim.
124. Fragmentation of Random Trees,  
Journal of Physics A **48**, 045001 (2015),  
Z. Kalay and E. Ben-Naim.
123. Slow Kinetics of Brownian Maxima,  
Physical Review Letters **113**, 030604 (2014),  
E. Ben-Naim and P. L. Krapivsky.
122. Persistence of Random Walk Records,  
Journal of Physics A **47**, 255002 (2014),  
E. Ben-Naim and P. L. Krapivsky.
121. Triggering of Repeating Earthquakes in Central California,  
Geophysical Research Letters **41**, 1499 (2014),  
C. Wu, J. Gomberg, E. Ben-Naim, and P. A. Johnson.
120. First Passage in Conical Geometry and Ordering of Brownian Particles,  
First-Passage Phenomena and Their Applications, editors: Ralf Metzler, Gleb Oshanin,  
and Sidney Redner, (World Scientific, 2014).  
E. Ben-Naim and P. L. Krapivsky.
119. Scaling Exponent for Incremental Records,  
Journal of Statistical Mechanics P10025 (2013),  
P. W. Miller and E. Ben-Naim.
118. Statistics of Superior Records,  
Physical Review E **88**, 022145 (2013),  
E. Ben-Naim and P. L. Krapivsky.

117. Recurrence Statistics of Great earthquakes,  
Geophysical Research Letters **40**, 3021 (2013),  
E. Ben-Naim, E. G. Daub, and P. A. Johnson.
116. Randomness in Competitions,  
Journal of Statistical Physics **151**, 458 (2013),  
E. Ben-Naim, N. W. Hengartner, S. Redner, and F. Vazquez.
115. Discrete Analog of the Burgers Equation,  
Journal of Physics A **45**, 455003 (2012),  
E. Ben-Naim and P. L. Krapivsky.
114. Scaling Behavior of Threshold Epidemics,  
European Physics Journal B **85**, 145 (2012),  
E. Ben-Naim and P. L. Krapivsky.
113. Are Megaquakes Clustered?  
Geophysical Research Letters **39**, L06308 (2012),  
E. G. Daub, E. Ben-Naim, R. A. Guyer, and P. A. Johnson.
112. Popularity-Driven Networking,  
EPL **97**, 48003 (2012),  
E. Ben-Naim and P. L. Krapivsky.
111. Dynamics of Random Graphs with Bounded Degrees,  
Journal of Statistical Mechanics P11008 (2011),  
E. Ben-Naim and P. L. Krapivsky.
110. Kinetics of Ring Formation,  
Physical Review E **83**, 061102 (2011),  
E. Ben-Naim and P. L. Krapivsky.
109. Mixing of Diffusing Particles,  
Physical Review E **82**, 061103(2010),  
E. Ben-Naim.
108. First-Passage Exponents of Multiple Random Walks,  
Journal of Physics A **43**, 495008 (2010),  
E. Ben-Naim and P. L. Krapivsky.
107. Kinetics of First Passage in a Cone,  
Journal of Physics A **43**, 495007 (2010),  
E. Ben-Naim and P. L. Krapivsky.
106. First Passage Properties of the Pólya Urn Process,  
Journal of Statistical Mechanics P07009 (2010),  
T. Antal, E. Ben-Naim, and P. L. Krapivsky.

105. Random Ancestor Trees,  
Journal of Statistical Mechanics P06004 (2010),  
E. Ben-Naim and P. L. Krapivsky.
104. Granular Gases under Extreme Driving,  
EPL **91**, 34002 (2010),  
W. Kang, J. Machta, and E. Ben-Naim.
103. A Kinetic View of Statistical Physics,  
Cambridge University Press (2010),  
P. L. Krapivsky, S. Redner, and E. Ben-Naim.
102. Stratification in the Preferential Attachment Network,  
Journal of Physics A **42**, 475001 (2009),  
E. Ben-Naim and P. L. Krapivsky.
101. Strong Mobility in Weakly Disordered Systems,  
Physical Review Letters **102**, 190602 (2009),  
E. Ben-Naim and P. L. Krapivsky.
100. Front Propagation in Flipping Processes,  
Journal of Physics A **41**, 465002 (2008),  
T. Antal, D. ben-Avraham, E. Ben-Naim, and P. L. Krapivsky.
99. Nonlinear Integral-Equation Construction of Orthogonal Polynomials,  
Journal of Nonlinear Mathematical Physics **15**, 73 (2008),  
C. M. Bender and E. Ben-Naim.
98. Simulation of Dense Colloids,  
Brazilian Journal of Physics **38** 37 (2008),  
H. J. Herrmann, J. Harting, M. Hecht, and E. Ben-Naim.
97. Phase Transition with Non-Thermodynamic States in Reversible Polymerization,  
Physical Review E **77**, 061132 (2008),  
E. Ben-Naim and P. L. Krapivsky.
96. Anomalous Distribution Functions in Sheared Suspensions,  
EPL **83**, 30001 (2008),  
J. Harting, H. J. Herrmann, and E. Ben-Naim.
95. Statistics of Partial Minima,  
Journal of Physics A **40**, F1021 (2007),  
E. Ben-Naim, M. B. Hastings, and D. Izraelevitz.
94. Singular Energy Distributions in Driven and Undriven Granular Media,  
Journal Statistical Physics **129**, 677 (2007),  
E. Ben-Naim and A. Zippelius.

93. Addition-Deletion Networks,  
Journal of Physics A **40**, 8607 (2007),  
E. Ben-Naim and P. L. Krapivsky.
92. Efficiency of Competitions,  
Physical Review E **76**, 026106 (2007),  
E. Ben-Naim and N. W. Hengartner.
91. Nonlinear Integral-Equation Formulation of Orthogonal Polynomials,  
Journal of Physics A **40**, F9 (2007),  
C. M. Bender and E. Ben-Naim.
90. Condensates in Driven Aggregation Processes,  
Physical Review E **75**, 011103 (2007),  
E. Ben-Naim and P. L. Krapivsky.
89. Scaling in Tournaments,  
EPL **77**, 30005 (2007),  
E. Ben-Naim, F Vazquez, and S. Redner.
88. What is the most competitive sport?  
Journal of the Korean Physical Society **50**, 124 (2007),  
E. Ben-Naim, F Vazques, and S. Redner.
87. Dynamics of Multi-Player Games,  
Journal of Statistical Mechanics P07001 (2006),  
E. Ben-Naim, B. Kahng, and J. S. Kim.
86. Experimental Characterization of Vibrated Granular Rings,  
European Physics Journal E **21**, 1 (2006),  
Z. A. Daya, E. Ben-Naim, and R. E. Ecke.
85. Weak Disorder in Fibonacci Sequences,  
Journal of Physics A **39**, L301 (2006),  
E. Ben-Naim and P. L. Krapivsky.
84. Parity and Predictability of Competitions,  
Journal of Quantitative Analysis in Sports, Vol. 2: No. 4, Article 1 (2006),  
E. Ben-Naim, F Vazquez, and S. Redner.
83. Alignment of Rods and Partitions of Integers,  
Physical Review E **73**, 031109 (2006),  
E. Ben-Naim and P. L. Krapivsky.
82. On the structure of Competitive Societies,  
European Physics Journal B **49**, 531 (2006),  
E. Ben-Naim, F Vazquez, and S. Redner.

81. Chronological Rank in Biological Evolution,  
Journal of Statistical Mechanics L10002 (2005),  
E. Ben-Naim and P. L. Krapivsky.
80. Polymerization with Freezing,  
Journal of Physics Condensed Matter **17**, S4249 (2005),  
E. Ben-Naim and P. L. Krapivsky.
79. Granular Chains,  
Chaos **15**, 041109 (2005),  
E. Ben-Naim, Z. A. Daya, and R. E. Ecke
78. Power-law velocity distributions in Granular Gases,  
Physical Review E **72**, 021302 (2005),  
E. Ben-Naim, B. Machta, and J. Machta.
77. Velocity Distributions of Granular Gases with Drag and with Long-Range Interactions,  
Physical Review Letters **95**, 068001 (2005),  
K. Kohlstedt, A. Snezhko, M. Sapozhnikov, I. Aranson, J. Olafsen, and E. Ben-Naim.
76. Dynamics of Social Diversity,  
Journal of Statistical Mechanics L11002 (2005),  
E. Ben-Naim and S. Redner.
75. Percolation with Multiple Giant Clusters,  
Journal of Physics A **38**, L417 (2005),  
E. Ben-Naim and P. L. Krapivsky.
74. Kinetic Theory of Random Graphs,  
AIP Conference Proceedings **776**, 3 (2005),  
E. Ben-Naim and P. L. Krapivsky.
73. Opinion Dynamics: Rise and Fall of Political Parties,  
Europhysics Letters **69**, 671 (2005),  
E. Ben-Naim.
72. Stationary States and Energy Cascades in Inelastic Gases,  
Physical Review Letters **94**, 138001 (2005),  
E. Ben-Naim and J. Machta.
70. Kinetic Theory of Random Graphs: from Paths to Cycles,  
Physical Review E **71**, 026129 (2005),  
E. Ben-Naim and P. L. Krapivsky.
71. Winning Quick and Dirty: the Greedy Random Walk,  
Journal of Physics A **37**, 11321 (2004),  
E. Ben-Naim and S. Redner.

69. Unicyclic Components in Random Graphs,  
Journal of Physics A **37**, L189 (2004),  
E. Ben-Naim and P. L. Krapivsky.
68. Random Geometric Series,  
Journal of Physics A **37**, 5949 (2004),  
E. Ben-Naim and P. L. Krapivsky.
67. Size of Outbreaks Near the Epidemic Threshold,  
Physical Review E **69**, 050901R (2004),  
E. Ben-Naim and P. L. Krapivsky.
66. Finite size Fluctuations in Interacting Particle Systems,  
Physical Review E **69**, 046113 (2004),  
E. Ben-Naim and P. L. Krapivsky.
65. Extremal Properties of Random Structures,  
Lecture Notes in Physics **650**, 211 (2004),  
E. Ben-Naim, P. L. Krapivsky, and S. Redner,
64. Stable Distributions in Stochastic Fragmentation,  
Journal of Physics A **37**, 2863-2880 (2004),  
P. L. Krapivsky, E. Ben-Naim, and I. Grosse.
63. Leadership Statistics in Random Structures,  
Europhysics Letters **65**, 151-157 (2004),  
E. Ben-Naim and P. L. Krapivsky.
62. Self-Similarity in Random Collision Processes,  
Physical Review E **68**, R050103-R050106 (2003),  
D. ben-Avraham, E. Ben-Naim, K. Lindenberg, A. Rosas.
61. Unity and Discord in Opinion Dynamics,  
Physica A **330**, 99-106 (2003),  
E. Ben-Naim, P. L. Krapivsky, F. Vasquez, and S. Redner,
60. Exchange Driven Growth,  
Physical Review E **68**, 031104-031112 (2003),  
E. Ben-Naim and P. L. Krapivsky.
59. Shattering Transitions in Collision-Induced Fragmentation,  
Physical Review E **68**, 021102-021108 (2003),  
P. L. Krapivsky and E. Ben-Naim.
58. Bifurcations and Patterns in Compromise Processes,  
Physica D **183**, 190-204 (2003),  
E. Ben-Naim, P. L. Krapivsky, and S. Redner.



57. The Inelastic Maxwell Model,  
Lecture Notes in Physics **624**, 65-94 (2003).  
E. Ben-Naim and P. L. Krapivsky.
56. Spontaneous Spirals in Vibrated Granular Chains,  
MRS Symposium Proceedings **759**, 129-134 (2003),  
R. E. Ecke, Z. A. Daya, M. K. Rivera, and E. Ben-Naim.
55. Kinetic Theory of Traffic Flows,  
Traffic and Granular Flow '01 155-168 (Springer, Berlin, 2003),  
E. Ben-Naim and P. L. Krapivsky.
54. Growth and Structure of Stochastic Sequences,  
Journal of Physics A **35**, L557-L563 (2002),  
E. Ben-Naim and P. L. Krapivsky.
53. Dynamics of Freely Cooling Granular Gases,  
Physical Review Letters **89**, 204301-204304 (2002),  
X. Nie, E. Ben-Naim, and S. Y. Chen.
52. Impurity in a Maxwellian Unforced Granular Fluid,  
European Physics Journal E **8**, 507-515 (2002),  
E. Ben-Naim and P. L. Krapivsky.
51. Scaling, Multiscaling, and Nontrivial Exponents in Inelastic Collision Processes.  
Physical Review E **66**, 011309-011318 (2002),  
E. Ben-Naim and P. L. Krapivsky.
50. Nontrivial Velocity Distributions in Inelastic gases,  
Journal of Physics A **35**, L147-L153 (2002),  
P. L. Krapivsky and E. Ben-Naim.
49. Entropic Tightening of Vibrated Chains,  
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