Curriculum Vitae **Dr. Prasad V V**

CONTACT INFORMATION

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Department of Physics
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DATE OF BIRTH February 17, 1986

RESEARCH INTERESTS

- Non-equilibrium statistical physics
- Soft matter systems, Granular matter
- Restart phenomena in physical systems
- Long-range systems

EDUCATION

- Post Doctoral Fellowships

  Department of Physics of Complex systems
  Weizmann Institute of Science, Rehovot, Israel
  Duration : 2017-2019

  Institute of Mathematical Sciences, Chennai, India
  Duration : 2015-2017

- Doctor of Philosophy (Ph.D.)

  Raman Research Institute, Banglore, India
  Discipline : Theoretical Physics
  Advisor : Prof. Sanjib Sabhapandit
  Thesis : **Driven Inelastic Gases**
  Duration : 2009-2015

- Master of Science (M.Sc.)

  Cochin University, Kochi, India
  Discipline : Physics
  CGPA : 8.41 (passed with Distinction)
  Duration : 2007-2009

- Bachelor of Science (B.Sc.)

  Government Arts and Science College, Kozhikode, India
  Discipline : Physics
  Percentage of Marks: 90.3 (passed with Distinction)
  Duration : 2003-2006

PUBLICATIONS

1. *Mpemba effect in driven granular Maxwell gases*, Apurba Biswas, **V V Prasad**, O. Raz, and R Rajesh,
   Phys. Rev. E 102, 012906 (2020)

2. *Asymptotic velocity distribution of a driven one dimensional binary granular Maxwell gas*, Apurba Biswas, **V V Prasad**, and R Rajesh,
   J. Stat. Mech.:Theor. and Exp. (2020)

3. *Ensemble inequivalence in the Blume-Emery-Griffiths model near a fourth order critical point*, **V V Prasad**, Alessandro Campa, David Mukamel, and Stefano Ruffo,
   Phys. Rev. E 100, 052135 (2019)

4. *Landau-like expansion for phase transitions in stochastic resetting*,
   Arnab Pal and **V V Prasad**,
   Phys. Rev. Research 1, 032001(R) (2019)

5. *First passage under stochastic resetting in an interval*,
   Arnab Pal and **V V Prasad**,
   Phys. Rev. E 99, 032123 (2019)

6. *Velocity distribution of driven granular gases*,
   V V Prasad, Dibyendu das, Sanjib Sabhapandit, and R Rajesh
   J. Stat. Mech. (2019) 063201

7. *Asymptotic behavior of the velocity distribution of driven inelastic gas with scalar velocities: analytical results*,
   V V Prasad, and R Rajesh
   Journal of Statistical Physics (2019)

8. *Velocity distribution of a driven inelastic one-component Maxwell gas*,
   V V Prasad, Dibyendu das, Sanjib Sabhapandit, and R Rajesh
   Physical Review E **95**, 032909 (2017)

9. *Driven inelastic Maxwell gas in one dimension*,
   V V Prasad, Sanjib Sabhapandit, Abhishek Dhar, and Onuttom Narayan
   Physical Review E **95**, 022115 (2017)

10. *Driven inelastic Maxwell gases*,
    V V Prasad, Sanjib Sabhapandit, and Abhishek Dhar
    Physical Review E **90**, 062130 (2014)

11. *High-energy tail of the velocity distribution of driven inelastic Maxwell gases*,
    V V Prasad, Sanjib Sabhapandit, and Abhishek Dhar
    Europhysics Letters **104**, 54003 (2013)

Academic Achievements

- Dhirubhai Ambani Fellowship (2003-2006)
- CSIR-Junior Research Fellowship (2009)
- Dean of Faculty Fellowship, Weizmann Institute (2017)

Computational Skills

- Programming Languages: C, Python, Mathematica, Matlab.
- Numerical Techniques: Molecular Dynamics, Event driven simulations.
- Other Skills: High Performance Computing using MPI, Shell scripting, Gnuplot, Xmgrace.

Talks Given

1. Seminar on **Granular Compaction**, RRI Bangalore, November 2010.
2. Journal Club talk on **'Shape of a Hair Fibre Bundle'**, RRI Bangalore, June 2012.
3. Journal Club talk on **'Going beyond Linear Stabilty Paradigm in Complex Networks'**, RRI Bangalore, June 2013.
4. A Talk on **Granular gases**, Inhouse, RRI Bangalore, January 2014.
5. A Science Talk on the **'Observation of Hawking Radiation in Condensed Matter Analogues'** at RRI Bangalore, November 2014.
6. A talk on **'Velocity statistics of Driven Granular gases'** at The Institute of Mathematical Sciences, August 2016.
7. A Seminar on **'Multicomponent Granular gases'** at ICTS Banglore, July 2017.
8. A talk on **'Granular gases'** at the program on Large deviation theory in statistical physics: Recent advances and future challenges, held at ICTS Banglore, September 2017.
9. A Seminar on **'Steady state properties on Inelastic gases'** at The Institute of Mathematical Sciences, October 2017.
10. A talk on **'Velocity statistics of Granular gases'** at the Weizmann Institute of Science, Rehovot, Israel, November 2017.
11. A talk on **'2 Dimensional Granular gases'** at the meeting 'Statistical mechanics day', held at Weizmann Institute of Science, Rehovot, Israel, November 2018.

Posters Presented

1. A Poster at the **Indian Statistical Physics Community Meeting - 2014**, IISc Bangalore , February 2014.
2. A poster at the conference on **'Advances in Nonequilibrium Statistical Mechanics'**, The Galileo Galilei Institute for Theoretical Physics, Florence (Italy), May 2014.
3. A poster at the **'STATPHYS-KOLKATA VIII'**, S N Bose National Centre for Basic Sciences, Kolkata, December 2014.
4. A Poster at the **Indian Statistical Physics Community Meeting - 2015**, IISc Bangalore , February 2015.
5. A Poster at the **School on Stochastic Processes and Random matrices**, Les houches School of Physics Ecole de Physique des houches, Les houches, France 2015.
6. A Poster at the **Indian Statistical Physics Community Meeting -2017** at ICTS Banglore, February 2017.

Conferences and Workshops attended

1. **RRI School on Statistical Physics - I**, RRI Bangalore, March 2010.
2. **RRI School on Statistical Physics - II**, RRI Bangalore, March 2011.
3. **ICTS school, Introduction to Random Matrix Theory**, IISc Bangalore, January 2012.
4. **'Unifying Concepts in Materials': J A Krumhansl School** 2012, JNCASR Bangalore, January 2012.
5. **RRI School on Statistical Physics - III**, RRI Bangalore, March 2012.
6. **RRI School on Statistical Physics - IV**, RRI Bangalore, April 2013.
7. **ICTS 'US-India Advanced Studies Institute on Thermalization: From Glasses to Black Holes'**, IISc Bangalore, June, 2013.
8. **Indian Statistical Physics Community Meeting-2014**, IISc Bangalore, February 2014.
9. **RRI - ICTS Bangalore School on Statistical Physics V**, RRI Bangalore, March 2014.
10. Workshop on **"Advances in Nonequilibrium Statistical Mechanics"**, The Galileo Galilei Institute for Theoretical Physics, Florence (Italy) May - June 2014.

11. **'STATPHYS-KOLKATA VIII'**, S N Bose National Centre for Basic Sciences, Kolkata, December 2014.
12. **Indian Statistical Physics Community Meeting - 2015**, IISc Bangalore, February 2015.
13. **School on Stochastic Processes and Random matrices**, Les houches School of Physics, Ecole de Physique des houches, Les houches, France 2015.
14. The discussion meeting on **"Non-equilibrium statistical physics"** at ICTS Bangalore, Oct-Nov, 2015.
15. **"Indian Statistical Physics Community Meeting - 2016"** at ICTS Bangalore, February 2016.
16. **Bangalore school on Statistical Physics - VII** at ICTS Bangalore, July 2016.
17. **Indian Statistical Physics Community Meeting - 2017** at ICTS Banglore, from 17-19 February 2017.
18. SRitp workshop on **Correlations, Fluctuations and anomalous transport in systems far from equilibrium 2017-18** at Weizmann Institute of Science, from 31 December 2017 to 12 January 2018.

International Languages

- English, French (Completed a Preliminary Course).

References

1. **Dr. Sanjib Sabhapandit**
   Theoretical Physics Group,
   Raman Research Institute,
   Bangalore, INDIA
   E-mail: sanjib.sabhapandit@gmail.com
   Phone:(+91-948)-083-6224
   Fax: +(91-80)-2361-0492
2. **Dr. Rajesh Ravindran**
   Theoretical Physics Group,
   The Institute of Mathematical Sciences,
   Chennai, INDIA
   E-mail: rrajesh@imsc.res.in
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3. **Dr. Oren Raz**
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4. **Prof. David Mukamel**
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