IPSITA MANDAL

Indian Institute of Technology, Kharagpur

Personal Details

Mailing address C/O Jagannath Mandal
Flat no: 203
756/757 Sarat Chatterjee Road
Howrah -- 711104
West Bengal
India

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E-mail ipsita.mandal@gmail.com

Date of Birth February 1, 1984

Nationality Indian

Gender Female

Current Employment (Dec 2016- Present)

Position Assistant Professor in Physics, *Indian Institute of Technology, Kharagpur*

Qualifications

Graduation
Aug 2002 - Jun 2005
Jadavpur University, Kolkata, India
Aggregate Percentage: 84.5
Rank: 2
First-division with Distinction

Post-Graduation
Aug 2005 - Apr 2008
Integrated M.Sc.-Ph.D. Programme
Harish-Chandra Research Institute, India
(Affiliated to: Homi Bhabha National Institute)
Aggregate Percentage: 84.7

Doctoral Experience (Apr 2008-Aug 2011)

Doctoral Supervisor Prof. Ashoke Sen
Harish-Chandra Research Institute, Allahabad, India

Doctoral Thesis Aspects of Supersymmetric Black Holes and Galilean Conformal Algebras

Degree Awarded by Homi Bhabha National Institute, Mumbai, India

Research Interests String Theory
– Black Hole Physics
– Galilean Conformal Algebras and their supersymmetric extensions

Reading Projects
– Supersymmetry

– Solitons and Instantons
– String Theory
– Bosonisation in condensed matter systems

Post-Doctoral Experience (Sep 2016- Dec 2016)

Position Postdoctoral Researcher, *University of Basel*

Research Interests Theoretical Condensed Matter Physics
– Hybrid superconducting-ferromagnetic systems
– Topological Phases
– Strongly Correlated Electrons
– Non-Fermi Liquids

Post-Doctoral Experience (Dec 2013- Aug 2016)

Position Postdoctoral Researcher, *Perimeter Institute for Theoretical Physics*

Research Interests Theoretical Condensed Matter Physics
– Strongly Correlated Electrons
– Non-Fermi Liquids
– Renormalization Group
– Emergent Gauge Fields in Condensed Matter Systems
– Majorana Fermions
– Entanglement Entropy

Post-Doctoral Experience (Sep 2011- Aug 2013)

Supervisor Prof. Sudip Chakravarty
Department of Physics and Astronomy, UCLA

Position Postdoctoral Scholar-Employee, *University of California Los Angeles*

Research Interests Theoretical Condensed Matter Physics
– Strongly Correlated Electrons
– Unconventional Superconductivity
– Majorana Fermions
– Entanglement Entropy

Publications/Pre-prints

1. **Interplay of Coulomb interactions and disorder in three dimensional quadratic band crossings without time-reversal or particle-hole symmetry**
   Ipsita Mandal and Rahul M. Nandkishore
   e-Print: arXiv:1709.06580 [cond-mat.str-el]

2. **Majorana fermions in quasi-one-dimensional systems with in-plane magnetic fields**
   Vardan Kaladzhyan, Julien Despres, Ipsita Mandal and Cristina Bena
   Accepted in Eur. Phys. J. B
   e-Print: arXiv:1611.09367 [cond-mat.supr-con]

3. **Scaling behaviour and superconducting instability in anisotropic non-Fermi liquids**
   Ipsita Mandal
   Published in Annals of Physics, 376, 89 (2017)
   e-Print: arXiv:1609.00020 [cond-mat.str-el]

4. **UV/IR Mixing In Non-Fermi Liquids: Higher-Loop Corrections In Different Energy Ranges**
   Ipsita Mandal
   Published in Eur. Phys. J. B (2016) 89: 278
   e-Print: arXiv:1608.06642 [cond-mat.str-el]

5. **Superconducting instability in non-Fermi liquids**
   Ipsita Mandal
   Published in Phys. Rev. B 94, 115138 (2016)
   e-Print: arXiv:1608.01320 [cond-mat.str-el]

6. **Super-GCA connection with tensionless strings: Addendum to "Super-GCA from N=(2,2) super-Virasoro"**
   Ipsita Mandal
   Published in Physics Letters B 760 (2016) 832-834
   e-Print: arXiv:1607.02439 [hep-th]

7. **Hyperscaling violation at the Ising-nematic quantum critical point in two dimensional metals**
   Andreas Eberlein, Ipsita Mandal and Subir Sachdev
   Published in Phys. Rev. B 94, 045133 (2016)
   e-Print: arXiv:1605.00657 [cond-mat.str-el]

8. **Geometrical mutual information at the tricritical point of the two-dimensional Blume-Capel model**
   Ipsita Mandal, Stephen Inglis and Roger G. Melko
   Published in J. Stat. Mech. (2016) 073105
   e-Print: arXiv: 1604.02464 [cond-mat.stat-mech]

9. **Cold atoms in U(3) gauge potentials**
   Ipsita Mandal and Atri Bhattacharya
   Published in Condens. Matter 2016, 1(1), 2
   e-Print: arXiv: 1603.08526 [cond-mat.quant-gas]

10. **Super-GCA from N = (2, 2) Super-Virasoro**
    Ipsita Mandal and Ahmed Rayyan
    Published in Physics Letters B 754, 195 (2016)
    e-Print: arXiv: 1601.04723 [hep-th]

11. **Counting Majorana bound states using complex momenta**
    Ipsita Mandal
    Published in Condensed Matter Physics, 2016, vol. 19, No. 3, 33703
    e-Print: arXiv:1503.06804 [cond-mat.mess-hall]

12. **Exceptional points for chiral Majorana fermions in arbitrary dimensions**
    Ipsita Mandal
    Published in EPL, 110 (2015) 67005
    e-Print: arXiv:1503.03839 [cond-mat.mess-hall]

13. **Exceptional point description of one-dimensional chiral topological superconductors/superfluids in BDI class**
    Ipsita Mandal and Sumanta Tewari
    Published in Physica E: Low-dimensional Systems and Nanostructures 79, 180 (2016)
    e-Print: arXiv:1502.03110 [cond-mat.mess-hall]

14. **Pairing in half-filled Landau level.**
    Zhiqiang Wang, Ipsita Mandal, Suk Bum Chung and Sudip Chakravarty
    Published in Annals of Physics, 351, 727 (2014)
    e-Print: arXiv:1408.6860 [cond-mat.str-el]

15. **Ultraviolet/infrared mixing in Non-Fermi Liquids.**
    Ipsita Mandal and Sung-Sik Lee
    Published in Phys. Rev. B 92, 035141 (2015)
    e-Print: arXiv:1407.0033 [cond-mat.str-el]

16. **Higher angular momentum pairing from transverse gauge interactions.**
Suk Bum Chung, Ipsita Mandal, S. Raghu and Sudip Chakravarty
Published in Phys. Rev. B 88, 045127 (2013)
e-Print: arXiv:1305.3938 [cond-mat.str-el]

17. **Amplitude mode of the *d*-density-wave state and its relevance to high-T_c cuprates.**
Jay D. Sau, Ipsita Mandal, Sumanta Tewari and Sudip Chakravarty
Published in Phys. Rev. B 87, 224503 (2013)
e-Print: arXiv:1207.6834 [cond-mat.supr-con]

18. **Majorana Zero Modes in a Quantum Ising Chain with Longer-ranged Interactions.**
Yuezhen Niu, Suk Bum Chung, Chen-Hsuan Hsu, Ipsita Mandal, S. Raghu and Sudip Chakravarty
Published in Phys. Rev. B 85, 035110 (2012)
e-Print: arXiv:1110.3072v2 [cond-mat.str-el]

19. **Logarithmic Corrections to N=4 and N=8 Black Hole Entropy: A One Loop Test of Quantum Gravity.**
Shamik Banerjee, Rajesh Kumar Gupta, Ipsita Mandal and Ashoke Sen
Published in JHEP 1111:143,2011
e-Print: arXiv:1106.0080 [hep-th]

20. **Black Hole Microstate Counting and its Macroscopic Counterpart.**
Ipsita Mandal and Ashoke Sen
Aug 2010. 38pp.
Published in Class.Quant.Grav.27:214003,2010.
e-Print: arXiv:1008.3801 [hep-th]

21. **Supersymmetric Extension of GCA in 2d.**
Ipsita Mandal
HRI-ST-1004, Mar 2010. 32pp.
Published in JHEP 1011:018,2010.
e-Print: arXiv:1003.0209 [hep-th]

22. **GCA in 2d.**
Arjun Bagchi, Rajesh Gopakumar, Ipsita Mandal and Akitsugu Miwa
HRI-ST-0923, Dec 2009. 45pp.
Published in JHEP 1008:004,2010.
e-Print: arXiv:0912.1090 [hep-th]

23. **Supersymmetry, Localization and Quantum Entropy Function.**
Nabamita Banerjee, Shamik Banerjee, Rajesh Gupta, Ipsita Mandal and Ashoke Sen
HRI-ST-0914, May 2009. 31pp.
Published in JHEP 1002:091,2010.
e-Print: arXiv:0905.2686 [hep-th]

24. **Supersymmetric Extension of Galilean Conformal Algebras.**
Arjun Bagchi and Ipsita Mandal
May 2009. 20pp.
Published in Phys.Rev.D80:086011,2009.
eprint: arXiv:0905.0580 [hep-th]

25. **On Representations and Correlation Functions of Galilean Conformal Algebras.**
Arjun Bagchi and Ipsita Mandal
HRIST0910,Mar 2009. 18pp.
Published in Phys.Lett.B675:393-397,2009.
eprint: arXiv:0903.4524 [hep-th]

26. **Black Hole Hair Removal.**
Nabamita Banerjee, Ipsita Mandal and Ashoke Sen
Jan 2009. 30pp.
Published in JHEP 0907:091,2009.
ePrint: arXiv:0901.0359 [hep-th]

27. **Conformal Nonlinear Fluid Dynamics from Gravity in Arbitrary Dimensions.**
Sayantani Bhattacharyya, R. Loganayagam, Ipsita Mandal, Shiraz Minwalla and Ankit Sharma
TIFRTH0838, Sep 2008. 39pp.
Published in JHEP 0812:116,2008.

ePrint: arXiv:0809.4272 [hep-th]

28. **Critical properties of spherically symmetric black hole accretion in Schwarzschild geometry.**
Ipsita Mandal, Arnab K. Ray and Tapas Kumar Das
Feb 2007. 8pp.
Published in Mon.Not.Roy.Astron.Soc.378:14001406,2007.
eprint: astro-ph / 0702733

Ongoing projects to be completed soon:

1. *Critical properties of the quantum critical point between a normal metal and an FFLO-type superconductor*
Collaborators: Dimitri Pimenov, Matthias Punk, Francesco Piazza

2. *Polarisation changes and PSG of bosonic U(1) Pyrochlores in electric field*
Collaborators: Roderich Moessner, Subhro Bhattacharjee, P. V. Sriluckshmy

3. *Detection of Multiple Majorana zero modes with (1) normal and superconducting multimode STM tip, and (2) cavity flux*
Collaborator: Pablo San-Jose

4. *Stability of time-reversal invariant Majorana Kramers pairs with bulk disorder*
Collaborators: Manisha Thakurathi, Pascal Simon, Jelena Klinovaja, Daniel Loss

5. *Quantum quench in extended SYK models*
Collaborators: Sumilan Banerjee, Paul Alexander McClarty

6. *Quantum quench in 3d O(N) rotor models in the large N limit*
Collaborators: Subhodip Saha, Krishnendu Sengupta

Tutoring Experience

- **Quantum Field Theory**
Spring 2008, HRI
Instructor: Prof. Sumathi Rao

- **Mathematical Methods**
Fall 2010, HRI
Instructor: Dr. Tirthankar Roy Choudhury

Supervising Experience

- **Essay Title:** *Study of rotating black holes in Kerr spacetime*
Student: *Nguimeya Tematio Gaël-Pacôme*
Feb-June 2015
Level: *AIMS-Cameroon Master's research project*
Spring 2015

- **Project Title:** *Non-relativistic limit of Superconformal Algebra*
Student: *Ahmed Rayyan, University of Alberta*
May-August 2015
Level: *Perimeter Institute Summer Undergraduate Program 2015*

- **Project Title:** *Study of non-Fermi liquids*
Student: *Robert Jones, Massachusetts Institute of Technology*
June-August 2016
Level: *Perimeter Institute Summer Undergraduate Program 2016*

- **Project Topic:** *Multiple Majorana modes*

Student: *Arnab Barman Ray, IIT-KGP*
May-July 2017
Level: *MSc summer internship, IIT-KGP*

- **Project Topic:** *Quantum quench of topological wires hosting Majorana modes*
  Student: *Arnab Barman Ray, IIT-KGP*
  August 2017-Dec 2017
  Level: *MSc Project, IIT-KGP*

- **Project Topic:** *O(N) non-linear sigma model*
  Student: *Subhodip Saha, IIT-KGP*
  August 2017-December 2017
  Level: *MSc Project, IIT-KGP*

Teaching Experience

- **First year B.Tech. Lab**
  Spring 2017, IIT-KGP

- **Classical Mechanics I**
  Fall 2017, IIT-KGP

- **First year B.Tech. Lab**
  Fall 2017, IIT-KGP

Schools/Conferences Attended

- **XXII SERC MAIN SCHOOL in theoretical high energy physics**
  January 18—February 7, 2007
  Hyderabad, India

- **Advanced String Theory School**
  October 8—14, 2007
  Institute of Physics, Bhubaneswar, India

- **From Strings to LHC – II**
  December 11—18, 2007
  Bangalore, India

- **IPM String School and Workshop**
  April 9—17, 2008
  Isfahan, Iran

- **Monsoon workshop on String Theory**
  June 2—August 8, 2008
  Tata Institute of Fundamental Research, Mumbai, India

- **Particle Physics in the Age of the LHC**
  December 29, 2008—January 8, 2009
  Institute for Advanced Studies of the Hebrew University, Jerusalem, Israel

- **Spring School on Superstrings and Related Topics**
  March 23—31, 2009
  International Centre for Theoretical Physics, Trieste, Italy

- **String Theory – Formal Developments and Applications**
  June 21—July 3, 2010
  Cargèse, France

- **ICTS Condensed Matter Programme 2010**
  December 12—23, 2010

Infosys Campus, Mysore, India

- **Topological States in Condensed Matter Physics**
  December 27, 2010—January 4, 2011
  Institute for Advanced Studies of the Hebrew University, Jerusalem, Israel

- **Novel Paradigms for Low-Dimensional Electronic Materials**
  February 5 – 10, 2012
  Aspen Center for Physics, Aspen, USA

- **Correlated Electron Systems**
  June 24— 29, 2012
  Mount Holyoke College, South Hadley, USA

- **APS March Meeting 2013**
  March 18 – 22, 2013
  Baltimore, Maryland, USA

- **Emergence in Complex Systems**
  February 10 – 14, 2014
  Perimeter Institute, Waterloo, Canada

- **4 Corners Southwest Ontario Condensed Matter Physics Symposium 2014**
  May 1, 2014
  Perimeter Institute, Waterloo, Canada

- **Quantum Many Body Dynamics**
  May 12 – 16, 2014
  Perimeter Institute, Waterloo, Canada

- **Progress and Applications of Modern Quantum Field Theory**
  February 16 – 21, 2015
  Aspen Center for Physics, Aspen, USA

- **Physics of Interfaces and Layered Structures**
  August 24 – September 8, 2015
  Nordita, Sweden

- **It from Qubit Summer School**
  July 18 – July 29, 2016
  Perimeter Institute, Waterloo, Canada

- **Quantum Machine Learning**
  Aug 08 – 12, 2016
  Perimeter Institute, Waterloo, Canada

Visiting scientist positions

- **Max Planck Institute for the Physics of Complex Systems**
  May 7 – July 16, 2017
  Project Topic: Quantum Spin Liquids
  Collaborator: Roderich Moessner

- **Cornell University**
  Invited as a Visiting Faculty member in the year 2018

Invited Seminars/Talks

- **Black Hole Hair Removal**
  March 20, 2009
  University of Rome, Tor Vergata

- **Supersymmetry, Localization and Quantum Entropy Function**
  March 3, 2010
  ETH, Zurich

- **Supersymmetry, Localization and Quantum Entropy Function**
  March 8, 2010
  CERN

- **Supersymmetry, Localization and Quantum Entropy Function**
  April 9, 2010
  University of Amsterdam

- **Supersymmetry, Localization and Quantum Entropy Function**
  April 16, 2010
  Utrecht University

- **Supersymmetry, Localization and Quantum Entropy Function**
  June 10, 2010
  DAMTP, Cambridge

- **Supersymmetry, Localization and Quantum Entropy Function**
  June 14, 2010
  Queen Mary, University of London

- **(Super)Galilean Conformal Algebras**
  June 18, 2010
  Swansea University

- **Amplitude Mode of the d-Density Wave State and its Relevance to High-T_c Cuprates**
  October 31, 2012
  Caltech, California

- **Amplitude Mode of the d-Density Wave State and its Relevance to High-T_c Cuprates**
  January 9, 2013
  UBC, Vancouver (Web seminar)

- **Superconductivity in a model involving transverse gauge bosons**
  March 21, 2013
  APS March Meeting 2013

- **Supersymmetry, Localization and Quantum Entropy Function**
  April 21, 2010
  Université libre de Bruxelles

- **Supersymmetry, Localization and Quantum Entropy Function**
  April 29, 2010
  Ludwig-Maximilians-Universität Munich

- **Supersymmetry, Localization and Quantum Entropy Function**
  May 3, 2010
  AEI, Potsdam

- **Supersymmetry, Localization and Quantum Entropy Function**
  May 14, 2010
  Universitat de Barcelona

- **Supersymmetry, Localization and Quantum Entropy Function**
  June 7, 2010
  Edinburgh Mathematical Physics Group

- **Supersymmetry, Localization and Quantum Entropy Function**
  June 11, 2010
  Durham University

- **(Super)Galilean Conformal Algebras**
  June 16, 2010
  Imperial College London

- **Supersymmetry, Localization and Quantum Entropy Function**
  January 13, 2011
  TIFR, Mumbai

- **Amplitude Mode of the d-Density Wave State and its Relevance to High-T_c Cuprates**
  November 30, 2012
  Perimeter Institute, Waterloo
  (Web seminar)

- **Amplitude Mode of the d-Density Wave State and its Relevance to High-T_c Cuprates**
  January 8, 2013
  HRI, Allahabad

- **Higher Angular Momentum Pairing from Transverse Gauge Interactions**
  November 18, 2013
  IACS, Kolkata

- **Higher Angular Momentum Pairing from Transverse Gauge Interactions**
  January 24, 2014
  Perimeter Institute, Waterloo

- **Renormalization Group Analysis of a Non-Fermi Liquid System**
  July 9, 2014
  KIAS, Seoul

- **Low Energy Physics of a Non-Fermi Liquid System**
  July 24, 2014
  TIFR, Mumbai

- **Low Energy Physics of a Non-Fermi Liquid System**
  August 1, 2014
  SINP, Kolkata

- **Low Energy Physics of a Non-Fermi Liquid System**
  August 13, 2014
  IISER Kolkata

- **Low Energy Physics of a Non-Fermi Liquid System**
  August 25, 2014
  HRI, Allahabad

- **Low Energy Physics of a Non-Fermi Liquid System**
  September 2, 2014
  IIT Madras, Chennai

- **Low Energy Physics of a Non-Fermi Liquid System**
  September 4, 2014
  ICTS, Bengaluru

- **UV/IR Mixing in non-Fermi liquids**
  February 20, 2015
  Progress and Applications of Modern Quantum Field Theory, Aspen

- **UV/IR Mixing in non-Fermi liquids**
  June 19, 2015
  Yukawa Institute, Kyoto University

- **UV/IR Mixing in non-Fermi liquids**
  August 18, 2015
  University of Iceland

- **UV/IR Mixing in non-Fermi liquids**
  September 9, 2015
  University of Oslo,Norway

- **Renormalization Group Analysis of a Non-Fermi Liquid System**
  May 1, 2014
  4 Corners Southwest Ontario Condensed Matter Physics Symposium, Perimeter Institute, Waterloo

- **Low Energy Physics of a Non-Fermi Liquid System**
  July 23, 2014
  IIT Bombay, Mumbai

- **Low Energy Physics of a Non-Fermi Liquid System**
  July 28, 2014
  IACS, Kolkata

- **Low Energy Physics of a Non-Fermi Liquid System**
  August 5, 2014
  IOP, Bhubaneswar

- **Low Energy Physics of a Non-Fermi Liquid System**
  August 20, 2014
  IIT Kanpur

- **Low Energy Physics of a Non-Fermi Liquid System**
  September 1, 2014
  IMSc, Chennai

- **Low Energy Physics of a Non-Fermi Liquid System**
  September 3, 2014
  IISc, Bengaluru

- **Low Energy Physics of a Non-Fermi Liquid System**
  February 13, 2015
  University of Arizona, Tucson

- **Low Energy Physics of a Non-Fermi Liquid System**
  June 12, 2014
  Okinawa Institute of Science and Technology, Japan

- **Counting Majorana bound states using complex momenta**
  June 24, 2015
  RIKEN Center for Emergent Matter Science, Japan

- **UV/IR Mixing in non-Fermi liquids**
  September 4, 2015
  Physics of Interfaces and Layered Structures, Nordita, Sweden

- **UV/IR Mixing in non-Fermi liquids**
  September 22, 2015
  IIT Kharagpur, India

- **Fun with Phases**
  September 24, 2015
  IACS, Kolkata, India

- **UV/IR Mixing in non-Fermi liquids**
  September 28, 2015
  IISER Pune, India

- **UV/IR Mixing in non-Fermi liquids**
  September 30, 2015
  IIT Hyderabad, India

- **UV/IR Mixing in non-Fermi liquids**
  October 1, 2015
  TIFR Hyderabad, India

- **Fun with Phases**
  October 8, 2015
  IMSc, Chennai, India

- **UV/IR Mixing in non-Fermi liquids**
  October 9, 2015
  CMI, Chennai, India

- **Fun with Phases**
  October 13, 2015
  IISc, Bengaluru, India

- **Fun with Phases**
  October 14, 2015
  ICTS, Bengaluru, India

- **UV/IR Mixing in non-Fermi liquids**
  October 15, 2015
  JNCASR, Bengaluru, India

- **UV/IR Mixing in non-Fermi liquids**
  October 16, 2015
  IIT Gandhinagar, India

- **Fun with Phases**
  October 27, 2015
  PRL, Ahmedabad, India

- **UV/IR Mixing in non-Fermi liquids**
  October 28, 2015
  PRL, Ahmedabad, India

- **UV/IR Mixing in non-Fermi liquids**
  October 30, 2015
  IISER Mohali, India

- **UV/IR Mixing in non-Fermi liquids**
  November 3, 2015
  IIT Delhi, India

- **Aspects of Ising-nematic quantum critical point**
  May 25, 2016
  UBC, Canada

- **Aspects of Ising-nematic quantum critical point**
  June 01, 2016
  SFU, Canada

- **Fun with Phases**
  August 08, 2016
  University of Toronto, Canada

- **Aspects of Ising-nematic quantum critical point**
  August 23, 2016
  Université de Montréal, Canada

- **Aspects of Ising-nematic quantum critical point**
  August 24, 2016
  McGill University, Canada

- **Aspects of Ising-nematic quantum critical point**
  September 13, 2016
  University of Basel, Switzerland

- **Aspects of Ising-nematic quantum critical point**
  October 07, 2016
  Universty of Bern

- **Aspects of Ising-nematic quantum critical point**
  November 09, 2016
  ETH Zurich

- **Aspects of Ising-nematic quantum critical point**
  December 05, 2016
  Karlsruher Institut für Technologie

- **Aspects of non-Fermi liquids**
  March 01, 2017
  IIT KGP, India

- **Manoeuvring Majoranas in 1D systems**
  April 13, 2017
  TIFR Hyderabad, India

- **Aspects of non-Fermi liquids**
  April 27, 2017
  University of California Santa Cruz, USA

- **Manoeuvring Majoranas in 1D systems**
  April 28, 2017
  University of California Santa Cruz, USA

- **Critical Fermi Surface: UV/IR mixing and Superconducting Instability**
  May 04, 2017
  Cornell University, USA

- **Critical Fermi Surface: UV/IR mixing and Superconducting Instability**
  June 09, 2017
  LMU, Munich

- **Critical Fermi Surface: UV/IR mixing and Superconducting Instability**
  July 10, 2017
  Institute of Physics,
  Polish Academy of Sciences, Warsaw

- **Critical Fermi Surface: UV/IR mixing and Superconducting Instability**
  June 14, 2017
  Frei University, Berlin

Posters presented

- **Majorana Zero Modes in a Quantum Ising Chain with Longer-ranged Interactions**
  February 6, 2012
  Aspen Winter Conference on Condensed Matter Physics, USA: Novel Paradigms for Low-Dimensional Electronic Materials

- **Collective Modes of the d-density Wave State and its Relevance to High-T_c Cuprates**
  June 26, 2012
  The Correlated Electron Systems Gordon Research Conference, USA

Referees

1. Prof. Ashoke Sen
   [email: ashokesen1999@gmail.com , sen@hri.res.in]
   Address: Harish-Chandra Research Institute,
   Jhunsi, Chhatnag Road,
   Allahabad – 211019, India
   Phone: +91-532-2274302
   Fax: +91-532-2567748

2. Prof. Sudip Chakravarty
   [email: sudip@physics.ucla.edu]
   Address: 6-137A Knudsen Hall,
   UCLA, Physics & Astronomy,
   475 Portola Plaza, Los Angeles
   CA 90095-1547, USA
   Phone: +1-310-825-4974
   Fax: +1-310-206-0864

3. Prof. Roderich Moessner
   [email:moessner@pks.mpg.de]
   Address: Max Planck Institute for the Physics of Complex Systems
   Nöthnitzer Straße 38
   D-01187 Dresden, Germany

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4. Prof. Roger Melko
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5. Prof. Michael Lawler
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6. Prof. Daniel Loss
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