

Jay Deep Sau

PRESENT EMPLOYER

Assistant Professor at the Condensed Matter Theory, Joint Quantum Institute and Department of Physics, University of Maryland, College Park, MD, 20740.

EDUCATION

PERIOD	INSTITUTE/BOARD	DEGREE
2002- 2008	Dept. of Physics, UC Berkeley (advisor: M.L. Cohen)	Ph.D.
1998 - 2002	Indian Institute of Technology, Kanpur ,India	B. Tech, Electrical Engineering
1998	Calcutta Boys School, Kolkata, India	Indian Secondary Certificate

POSITIONS HELD

PERIOD	INSTITUTE/BOARD	DEGREE
2011-2013	Department of Physics, Harvard University (advisor: B. I. Halperin)	Post-doctoral Fellow
2009-2011	Condensed Matter Theory Center, University of Maryland, College Park (advisor: S. Das Sarma)	Post-doctoral Researcher
2008-2009	Dept. of Physics, UC Berkeley (advisor: M. L. Cohen)	Post-doctoral Researcher

RESEARCH INTEREST

Main Area of work is in **Condensed Matter Theory** mostly along the lines of understanding quantum mechanical properties of nano-scale systems and materials.

Currently Working on:

- ◆ Topological superconductivity with Majorana fermions.
- ◆ Predicting systems to realize topological superconductivity.
- ◆ Magnetic impurities in superconductors.
- ◆ Competing order and collective modes in low dimensional systems.

INVITED TALKS AND PRESENTATIONS

- ◆ Invited talk at IAS Program and Croucher Conference on Topological Phases in Condensed Matter and Cold Atomic Systems, Hong Kong University of Science and Technology, December 2015.
- ◆ Invited talk at APS Mid-Atlantic sectional meeting in Morgantown October 2015.
- ◆ Condensed Matter Theory seminar at Johns Hopkins university, September 2015.
- ◆ Invited talk at Howard University, Washington DC, March 2015.
- ◆ Invited talk at Laboratory of Physical Sciences, Maryland, Feb 2015.
- ◆ Invited talk at Sectional APS meeting, Penn State, Oct 2014.
- ◆ Invited talk at EPQHS5, Weizmann Institute, Israel, June 2014.
- ◆ Invited talk at NIMS, Tokyo, Japan, March 2014.
- ◆ Invited talk at the FOM meeting, Netherlands, January 2014.
- ◆ Invited talk at the Argonne Fall Workshop, October 2013.
- ◆ Invited talk at Los Alamos National Laboratory, September 2013.
- ◆ Invited talk at North Eastern University, Boston, August 2013.
- ◆ Invited talk at Beijing, China, June 2013.
- ◆ Invited talk at MIT, Cambridge, May 2013.
- ◆ Invited talk at Agra, India, April 2013.
- ◆ Invited talk at Purdue University, March 2013.
- ◆ Invited talk at Nagoya University, February 2013.
- ◆ Invited talk at the Aspen Center for Physics, January 2013.
- ◆ Invited talk at Yale, September 2012.
- ◆ Invited talk at Trieste, Italy, August 2012.
- ◆ Invited talk at Leiden, Netherlands, July 2012.
- ◆ Invited talk at Royal Holloway College, London, March 2012.
- ◆ Invited talk at March Meeting, Boston, February, 2012.
- ◆ Invited talk at Boston University, USA, February, 2012.
- ◆ Invited talk at Tata Institute of Fundamental Research, India, January, 2012.

- ◆ Invited talk at ICMP conference, India, December, 2011.
- ◆ Invited talk at University of Toronto, September, 2011.
- ◆ Invited talk at Stig Lundvist Conference, Trieste, Italy, July, 2011.
- ◆ Invited talk at Topological aspects of Condensed Matter Theory Workshop, Trieste, Italy, June 2011
- ◆ Invited for Condensed Matter Seminar at Penn State University, February, 2011.
- ◆ Invited for Condensed Matter Seminar at Stony Brook University, February, 2011.
- ◆ Invited for Condensed Matter Seminar at Ohio State University, February, 2011.
- ◆ Invited for special condensed matter seminar at Harvard University, December 2010.
- ◆ Invited for talk at Mc Gill University, Canada, November 2010.
- ◆ Poster presentation at Physics Frontier Center, University of Maryland College Park., Summer 2010.
- ◆ Invited talk at Aspen center for Physics, Summer 2010.
- ◆ Short presentation at Microsoft Station Q, Santa Barbara, Summer 2010.
- ◆ Invited talk at Lawrence Berkeley National Lab, Spring 2010.
- ◆ Invited talk at Indian Institute of Science, Bangalore, India, November 2009.

TEACHING EXPERIENCE

- ◆ Phys 8A – TA Freshman mechanics and thermodynamics: Fall 2002
- ◆ Phys 240A – TA Graduate solid state – Fall 2004
- ◆ Phys 240B – TA Graduate solid state : superconductivity and many-body theory – Spring 2006
- ◆ Phys 622 – Instructor Graduate Quantum Mechanics – Fall 2013, Fall 2014, Fall 2015
- ◆ Phys 839J - Online Advanced Quantum course offered through EdX - Spring 2015

ACADEMIC ACHIEVEMENTS/AWARDS

- ◆ Alfred P. Sloan Foundation Research Fellowship, 2016
- ◆ National Science Foundation Faculty Early Career Development (CAREER) Award, 2016
- ◆ Richard Ferrell **Distinguished Faculty award** from University of Maryland, 2015
- ◆ Completed a **4 year summer program in Mathematics** at the **Indian Statistical Institute, Kolkata** in 2002
- ◆ **Merit Award in Indian National Physics Olympiad Training Camp** in 1998
- ◆ **Merit Award in Indian National Math Olympiad Training Camp** in 1997

PUBLICATION LIST FOR JAY D SAU

1. Bohmian Trajectories for Photons

Partha Ghose, A. S. Majumdar, S. Guha, J. Sau,
Phys. Lett. A **290**, Issues 5-6, 19 November 2001, Pages 205-213.

2. Lossy Compression of Individual Sequences

Published in IEEE Information Theory Workshop, Bangalore, India (2002)
Sau, J.D.; Bansal, R.K.; Barthwal, N., Information Theory Workshop, 2002.
Proceedings of the 2002 IEEE , vol., no., pp. 201-, 20-25 Oct. 2002

3. Lempel-Ziv Compression for Countable Alphabet Sources

Published in IEEE Symposium on Information Theory (2005)
Bansal, R.K.; Sau, J.D., Proceedings. International Symposium on Information Theory, 2005.
ISIT 2005, vol., no., pp. 491-494, 4-9 Sept. 2005

4. Observation of the Giant Stark effect in Boron Nitride Nanotubes

Masa Ishigami, Jay Deep Sau, Shaul Aloni, Marvin L. Cohen, and A. Zettl,
Phys. Rev. Lett. **94**, 056804 (2005)

5. Symmetry Breaking in Boron Nitride Nanotubes

Masa Ishigami, Jay Deep Sau, Shaul Aloni, Marvin L. Cohen, and A. Zettl,
Phys. Rev. Lett. **97**, 176804 (2006)

6. Possibility of Increased Mobility in Ge-Sn Alloy Systems

Jay Deep Sau and Marvin L. Cohen
Phys. Rev. B **75**, 045208 (2007)

7. Ab-initio calculation of Phonon-Splitting in Anti-Ferromagnetic ZnCr₂O₄

Kevin T. Chan, Jay D. Sau, Peihong Zhang, and Marvin L. Cohen
Phys. Rev. B **75**, 054304 (2007)

8. Proposal for a High Mobility Ge-Sn Alloy System

M.L. Cohen and J.D. Sau
Proceedings of the 28th International Conference on the Physics of Semiconductors
AIP Proceedings **893**, 189 (2007)

9. Lossy Source Coding for Individual Sequences with Side Information

R K Bansal , T. Jacob, J D Sau
Submitted to the International Journal of Information and Coding Theory (IJI- CoT) (2008)

10. Ab initio study of the optical properties of Si-XII

Brad D. Malone, Jay D. Sau, and Marvin L. Cohen

Phys. Rev. B **78**, 161202 (2008)

11. Possible electric-field-induced one-dimensional excitonic insulators in pairs of carbon nanotubes

Jay D. Sau, Marvin L. Cohen

Phys. Rev. B **78**, 115436 (2008)

12. Energy Levels of Weakly-Coupled Nanostructures: C60/metallic substrates

Jay D. Sau, J. B. Neaton, Hyoung Joon Choi, Steven G. Louie, Marvin L. Cohen

Phys. Rev. Lett. **101**, 206804. (2008)

13. Ab initio survey of the electronic structure of tetrahedrally bonded phases of silicon

Brad D. Malone, Jay D. Sau, and Marvin L. Cohen

Phys. Rev. B **78**, 035210 (2008)

14. Amplification of fluctuations in a spinor Bose-Einstein condensate

S. R. Leslie, J. Guzman, M. Vengalattore, Jay D. Sau, Marvin L. Cohen, and

D. M. Stamper-Kurn

Phys. Rev. A **79**, 043631 (2009)

15. Optimizing Anharmonicity in Nanoscale Weak Link Josephson Junction Oscillators

R. Vijay, J. D. Sau, Marvin L. Cohen, and I. Siddiqi

Phys. Rev. Lett. **103**, 087003 (2009)

16. Theory of domain formation in inhomogeneous ferromagnetic dipolar condensates within the truncated Wigner approximation

Jay D. Sau, S. R. Leslie, D. M. Stamper-Kurn, and Marvin L. Cohen

Phys. Rev. A **80**, 023622 (2009)

17. Generic New Platform for Topological Quantum Computation Using Semiconductor Heterostructures

Jay D. Sau, Roman M. Lutchyn, Sumanta Tewari, and S. Das Sarma

Phys. Rev. Lett. **104**, 040502 (2010)

18. A theorem for the existence of Majorana fermion modes in spin-orbit-coupled semiconductors

Sumanta Tewari, Jay D. Sau, S. Das Sarma

Annals Phys. **325**, 219-231 (2010)

19. Spin squeezing of high-spin, spatially extended quantum fields

Jay D. Sau, S. R. Leslie, Marvin L. Cohen, and D. M. Stamper-Kurn

New J. Phys. **12** 085011. (2010).

20. Proximity effect at the superconductor-topological insulator interface

Tudor D. Stanescu, Jay D. Sau, Roman M. Lutchyn, and S. Das Sarma

Phys. Rev. B **81**, 241310 (2010)

21. Majorana Fermions and a Topological Phase Transition in Semiconductor-Superconductor Heterostructures

Roman M. Lutchyn, Jay D. Sau, and S. Das Sarma

Phys. Rev. Lett. **105**, 077001 (2010)

22. Robustness of Majorana fermions in 2D topological superconductors

Jay D. Sau, Roman M. Lutchyn, Sumanta Tewari, S. Das Sarma

Phys. Rev. B **82**, 094522 (2010).

23. Antiferromagnetic Spinor Condensates are Quantum Rotors

Ryan Barnett, Jay D. Sau, S. Das Sarma

Phys. Rev. A (Rapid Commun.), **82**, 031602 (2010).

24. Non-Abelian quantum order in spin-orbit-coupled semiconductors: The search for topological Majorana particles in solid state systems

Jay D. Sau, Sumanta Tewari, Roman Lutchyn, Tudor Stanescu, S. Das Sarma

Phys. Rev. B **82**, 214509 (2010, Editor's Suggestion).

25. Time reversal non-invariant non-Abelian topological order in non-centrosymmetric superconductors

Parag Ghosh, Jay D. Sau, Sumanta Tewari, S. Das Sarma

Phys. Rev. B, **82**, 184525 (2010).

26. Universal quantum computation on a semiconductor quantum wire network

Jay D. Sau, Sumanta Tewari, S. Das Sarma

Phys. Rev. A **82**, 052322 (2010).

27. Diamagnetism from the 6-vertex model and implications for the cuprate superconductors

Jay D. Sau, Sumanta Tewari

Phys. Rev. Lett. **107**, 177006 (2011).

28. Anisotropic surface transport in topological insulators in proximity to a helical spin density wave

Qiuzi Li, Parag Ghosh, Jay D. Sau, Sumanta Tewari, S. Das Sarma

Phys. Rev. B **83**, 085110 (2011).

29. The Prediction of a Gapless Topological "Haldane Liquid" Phase in a One-Dimensional Cold Polar Molecular Lattice

J. P. Kestner, Bin Wang, Jay D. Sau, S. Das Sarma

Phys. Rev. B **83**, 174409 (2011).

- 30. Controlling non-Abelian statistics of Majorana fermions in semiconductor nanowires**
Jay D. Sau, D. J. Clarke, S. Tewari
Phys. Rev. B **84**, 094505 (2011).
- 31. Majorana fermion exchange in quasi-one-dimensional networks**
David J. Clarke, Jay D. Sau, and Sumanta Tewari
Phys. Rev. B **84**, 035120 (2011).
- 32. Chiral Rashba spin textures in ultra-cold Fermi gases**
Jay D. Sau, Rajdeep Sensarma, Stephen Powell, I. B. Spielman, S. Das Sarma
Phys. Rev. B, **83** 140510(R) (Editor's suggestion) (2011).
- 33. Electrodynamic and Excitonic Intertube Interactions in Semiconducting Carbon Nanotube Aggregates**
J. J. Crochet, J. D. Sau, J. G. Duque, S. K. Doorn, and M. L. Cohen
ACS Nano, **5**, 2611 (2011).
- 34. A number conserving theory for topologically protected degeneracy in one-dimensional fermions**
Jay D. Sau, B. I. Halperin, K. Flensberg, S. Das Sarma,
Phys. Rev. B **84**, 144509 (2011).
- 35. Topological periodic superconductor-nanowire structures**
Jay D. Sau, Chien Hung Lin, Hoi-Yin Hui, S. Das Sarma
Phys. Rev. Lett. **108**, 067001 (2012)
- 36. Quench induced Mott insulator to superfluid quantum phase transition**
Jay D. Sau, Bin Wang, S. Das Sarma
Phys. Rev. A **85**, 013644 (2012)
- 37. Probing topological quantum critical points**
Sumanta Tewari, J. D. Sau, V. W. Scarola, Chuanwei Zhang, S. Das Sarma
Phys. Rev. B **85**, 155302 (2012)
- 38. Topologically protected surface Majorana arcs and bulk Weyl fermions in ferromagnetic superconductors**
Jay D. Sau, S. Tewari, Phys. Rev. B **86**, 104509 (2012)
- 39. Experimental and materials considerations for the topological superconducting state in electron and hole doped semiconductors: searching for non-Abelian Majorana modes in 1D nanowires and 2D heterostructures**
Jay D. Sau, Sumanta Tewari, S. Das Sarma,
Phys. Rev. B **85**, 064512 (2012)
- 40. Topological invariants for spin-orbit coupled superconductor nanowires**
Sumanta Tewari, Jay D. Sau
Phys. Rev. Lett. **109**, 150408 (2012)
- 41. How to realize a robust practical Majorana chain in a quantum dot-superconductor linear array**
Jay D. Sau, S. Das Sarma
Nature Communications **3**, Article number: 964 (2012).
- 42. Topologically non-trivial superfluid phases and Majorana fermions from Kohn-Luttinger effect**
M. S. Marienko, Jay D. Sau, Sumanta Tewari
arXiv:1202.5784 (2012).
- 43. Conductance beyond the Landauer limit and charge pumping in quantum wires**
Jay D. Sau, Takuya Kitagawa, Bertrand I. Halperin
Phys. Rev. B **85**, 155425 (2012)
- 44. Zero bias conductance peak in Majorana wires made of semiconductor-superconductor hybrid structures**
Chien-Hung Lin, Jay D. Sau, S. Das Sarma
Phys. Rev. B **86**, 224511 (2012).
- 45. Topological minigap in quasi-one-dimensional spin-orbit-coupled semiconductor Majorana wires**
Sumanta Tewari, T. D. Stanescu, J. D. Sau, S. Das Sarma
Phys. Rev. B **86**, 024504 (2012)
- 46. To close or not to close: the fate of the superconducting gap across the topological quantum phase transition in Majorana-carrying semiconductor nanowires**
Tudor D. Stanescu, Sumanta Tewari, Jay D. Sau, S. Das Sarma
Phys. Rev. Lett. **109**, 266402 (2012)
- 47. On the possibility of the fractional ac Josephson effect in non-topological conventional superconductor-normal-superconductor junctions**
Jay D. Sau, Erez Berg, Bertrand I. Halperin
arXiv:1206.4596 (2012).
- 48. A Majorana smoking gun for the superconductor-semiconductor hybrid systems**
S. Das Sarma, Jay D. Sau, Tudor D. Stanescu
Phys. Rev. B **86**, 220506 (2012)

- 49. Multi-particle Auger dissociation of excitons in shallow doped carbon nanotubes**
Jay D. Sau, Jared J. Crochet, Miguel Dimas, Juan G. Duque, Marvin L. Cohen, Stephen K. Doorn
J. Phys. Chem. Lett. 4 (6), 982 (2013)
- 50. Majorana fermions in carbon nanotubes**
Jay D. Sau, Sumanta Tewari,
Phys. Rev. B 88, 054503 (2013)
- 51. Shiba impurity bound states as a probe of topological superconductivity and Fermion parity changing quantum phase transitions**
Jay D. Sau, Eugene Demler
Phys. Rev. B 88, 205402 (2013)
- 52. Collective modes of the d-density wave state at its relevance to high T_c superconductors**
Jay D. Sau, Ipsita Mandal, Sumanta Tewari, Sudip Chakravarty
Phys. Rev. B 87, 224503 (2013)
- 53. Density of states of disordered topological semiconductor-superconductor hybrid nanowires**
J. D. Sau, S. Das Sarma
Phys. Rev. B 88, 064506 (2013)
- 54. Enhanced anti-ferromagnetic exchange between magnetic impurities in a superconducting host**
N. Y. Yao, L. I. Glazman, E. A. Demler, M. D. Lukin, J. D. Sau
Phys. Rev. Lett. 113, 087202 (2014).
- 55. Magnetic Field Response and Chiral Symmetry of Time Reversal Invariant Topological Superconductors**
E. Dumitrescu, J. D. Sau, S. Tewari
Phys. Rev. B 90, 245438 (2014)
- 56. Mean field theory of competing orders in metals with antiferromagnetic exchange interactions**
J. D. Sau, S. Sachdev
Phys. Rev. B 89, 075129 (2014)
- 57. Disorder-induced subgap states and Majorana zero-energy edge modes in 2D topological insulator-superconductor hybrid structures**
H-Y Hui, J. D. Sau, S. Das Sarma
Phys. Rev. B 90, 174206 (2014)
- 58. Migdal's theorem and electron-phonon vertex corrections in Dirac materials**
B. Roy, Jay D. Sau, S. Das Sarma
Phys. Rev. B 89, 165119 (2014)
- 59. Suppressing defect production during passage through a quantum critical point**
J. D. Sau, K. Sengupta
Phys. Rev. B 90, 104306 (2014)
- 60. Odd-parity superconductivity from phonon-mediated pairing**
P. M. R. Brydon, S. Das Sarma, H-Y Hui, J. D. Sau
Phys. Rev. B 90, 184512 (2014)
- 61. Phase diagram and excitations of a Shiba molecule**
N. Y. Yao, C. P. Moca, I. Weymann, J. D. Sau, M. D. Lukin, E. A. Demler, G. Zaránd
Phys. Rev. B 90, 241108(R) (2014)
- 62. Competing charge-density-wave, magnetic and topological ground states at and near Dirac points in graphene in axial magnetic fields**
B. Roy, J. D. Sau
Phys. Rev. B 90, 075427 (2014)
- 63. Transport in two-dimensional disordered semimetals**
M. Knap, J. D. Sau, B. I. Halperin, E. A. Demler
Phys. Rev. Lett. 113, 186801 (2014)
- 64. Surface Theory of a Family of Topological Kondo Insulators**
B. Roy, J. D. Sau, M. Dzero, V. Galitski
Phys. Rev. B 90, 155314 (2014)
- 65. Quasiclassical formalism and a generalized Eilenberger theory for Majorana zero-mode carrying disordered p-wave superconductors**
H-Y. Hui, J. D. Sau, S. Das Sarma
Phys. Rev. B 90, 064516 (2014)
- 66. A proposal to probe quantum non-locality of Majorana fermions in tunneling experiment**
Jay D. Sau, Brian Swingle, S. Tewari
Phys. Rev. B 92, 020511(R) (2015)
- 67. Magnetic Catalysis and Spontaneous Mass Generation in Weyl Semimetals**
B. Roy, J. D. Sau
Phys. Rev. B (in press)
- 68. Topological Shiba chain from spin-orbit coupling**

- P. M. R. Brydon, Hoi-Yin Hui, J. D. Sau
Phys. Rev. B 91, 064505 (2015)
- 69. Majorana fermions in a ferromagnetic wire on the surface of a bulk spin-orbit coupled s -wave superconductor**
H-Y Hui, P. M. R. Brydon, Jay D. Sau, S. Tewari, S. Das Sarma
Sci. Rep. 5, 8880 (2015)
- 70. Excitonic and Nematic Instabilities on the Surface of Topological Kondo Insulators**
Bitan Roy, Johannes Hofmann, Valentin Stanev, Jay D. Sau, Victor Galitski
arXiv:1410.1868
- 71. Proximity-induced superconductivity and Josephson critical current in quantum spin Hall systems**
Hoi-Yin Hui, Alejandro M. Lobos, Jay D. Sau, S. Das Sarma
Phys. Rev. B 90, 224517 (2014)
- 72. Majorana Fermions in Chiral Topological Ferromagnetic Nanowires**
Eugene Dumitrescu, Brenden Roberts, Sumanta Tewari, Jay D. Sau, S. Das Sarma
Phys. Rev. B 91, 094505 (2015)
- 73. Equivalence of topological mirror and chiral superconductivity in one dimension**
Eugene Dumitrescu, Girish Sharma, Jay D. Sau, Sumanta Tewari
Phys. Rev. B 92, 045421 (2015)
- 74. Bound states of a ferromagnetic wire in a superconductor**
Jay D. Sau, P. M. R. Brydon
arXiv:1501.03149 – Phys. Rev. Lett. (in press)
- 75. Universal spin-triplet superconducting correlations of Majorana fermions**
Xin Liu, Jay D. Sau, S. Das Sarma
Phys. Rev. B 92, 014513 (2015)
- 76. Normal state Nernst effect from bi-directional bond density wave state in high T_c cuprates**
Girish Sharma, Chunxiao Liu, Kangjun Seo, J. D. Sau, Sumanta Tewari
arXiv:1502.03812
- 77. Substrate-induced Majorana renormalization in topological nanowires**
S. Das Sarma, Hoi-Yin Hui, P. M. R. Brydon, Jay D. Sau
New J. Phys. 17, 075001 (2015)
- 78. Conductance spectroscopy of topological superconductor wire junctions**
F. Setiawan, P. M. R. Brydon, Jay D. Sau, S. Das Sarma
Phys. Rev. B 91, 214513 (2015)
- 79. Dynamical detection of a topological phase transition in one-dimensional spin-orbit-coupled Fermi gases**
F. Setiawan, K. Sengupta, I. B. Spielman, Jay D. Sau
arXiv:1503.07167
- 80. Parafermionic zero modes in ultracold bosonic systems**
Mohammad F. Maghrebi, Sriram Ganeshan, David J. Clarke, Alexey V. Gorshkov, Jay D. Sau
Phys. Rev. Lett. 115, 065301 (2015)
- 81. Is the transition between topological and trivial insulators always continuous?**
Bitan Roy, Pallab Goswami, Jay D. Sau
arXiv:1507.00722
- 82. Dirty Weyl semimetals: stability, phase transition and quantum criticality**
Soumya Bera, Jay D. Sau, Bitan Roy
arXiv:1507.07551
- 83. Does the bulk disorder in the superconductor affect proximity-induced topological superconductivity?**
Hoi-Yin Hui, Jay D. Sau, S. Das Sarma
arXiv:1508.04134
- 84. On correlation between zero bias conductance peaks and topological invariants in semiconductor Rashba nanowires.**
A Nag, J Sau
Bulletin of the American Physical Society (2016)

85. On correlation between zero bias conductance peaks and topological invariants in semiconductor Rashba nanowires.
A Nag, J Sau
Bulletin of the American Physical Society (2016)
86. Spin susceptibility function of helical metal and RKKY interaction
C Liu, B Roy, J Sau
Bulletin of the American Physical Society (2016)
87. Effect of disorder on the decreasing the critical value of magnetic field in proximity induced topological superconductors
Y Alavirad, CK Chiu, J Sau
Bulletin of the American Physical Society (2016)
88. Superconductor disorder and strong proximity coupling effects in Majorana nanowires
W Cole, J Sau
Bulletin of the American Physical Society (2016)
89. Physical Architecture for a Universal Topological Quantum Computer based on a Network of Majorana Nanowires
J Sau, M Barkeshli
Bulletin of the American Physical Society (2016)
90. Proximity effect and Majorana bound states in clean semiconductor nanowires coupled to disordered superconductors
WS Cole, JD Sau, SD Sarma arXiv preprint arXiv:1603.03780 (2016)
91. How to infer non-Abelian statistics and topological invariants from tunneling conductance properties of realistic Majorana nanowires
SD Sarma, A Nag, JD Sau
arXiv preprint arXiv:1603.00041 (2016)

CITATION STATISTICS FOR JAY D SAU

According to the Google Scholar profile data base, there are a total of around 4006 citations (including two papers with >700 citations each) to the work listed above, which collectively has an h-index of 29 and an i-10 index of 51.