

Biographical Sketch

Name: Minhyea Lee

Title: Assistant Professor

Affiliation: Department of Physics, University of Colorado Boulder, Boulder CO 80309

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(A) Education and Training

Institution	Area of Study	Year	Degree
POSTECH, South Korea	Physics	1996	Bachelor of Science
POSTECH, South Korea	Physics	1998	Master of Science
University of Chicago, IL	Physics	2004	PhD
Princeton University, NJ	Physics	2004-2007	Post-Doctoral Fellow

(B) Research and Professional Experience

Year	Position	Institution
2010 - present	Assistant Professor	University of Colorado Boulder, CO
2007 - 2010	Research Associate	NIST Boulder, CO
2004 - 2007	Postdoctoral Fellow	Princeton University, NJ
1999 - 2004	Graduate Research Assistant	University of Chicago, IL
1998-1999	Research Associate	POSTECH, South Korea

(C) Products

Products Most Closely Related to the Proposed Project

1. I. A. Leahy, Yu-Ping Lin, P. E. Siegfried, A. C. Treglia, J. C. W. Song, R. M. Nandkishore and Minhyea Lee, "Non-saturating large magnetoresistance in semimetals", *Proceedings of the National Academy of Sciences* **115**, 10570 (2018).
2. I. A. Leahy, C. A. Pocs, P. E. Siegfried, D. Graf, S. -H. Do, K.-Y. Choi, B. Normand and Minhyea Lee, "Anomalous thermal conductivity and magnetic torque response in magnetic torque response in the honeycomb magnet α -RuCl₃", *Phys. Rev. Lett.* **118**, 187203 (2017).
3. P. E. Siegfried, A. C. Bornstein, A. C. Treglia, T. Wolf and Minhyea Lee, "Multiple magnetic states within the A-Phase: Angular dependence Study of Mn_{0.9}Fe_{0.1}Si", *Physical Review B* **96**, 220410(R) (2017).
4. Y. Uemura, T. Goko, C. Arguello, A. Hamann, T. Wolf, Minhyea Lee, D. Reznik, A. Maisuradze, R. Khasanov, and E. Morenzoni, "Restoration of quantum critical behavior by disorder in pressure-tuned (Mn,Fe)Si", *Nature Quantum Materials*, **2**, **44** (2016).
5. A. C. Bornstein, B. J. Chapman, N. J. Ghimire, D. Mandrus, D. S. Parker and Minhyea Lee, "Out-of-plane spin-orientation dependent magnetotransport properties in the anisotropic helimagnet Cr_{1/3}NbS₂", *Physical Review B* **91**, 184401 (2015).

Five Other Products

1. B. J. Chapman, A. C. Bornstein, N. J. Ghimire, D. Mandrus and Minhyea Lee, “Spin structure of the anisotropic helimagnet $\text{Cr}_{1/3}\text{NbS}_2$ in magnetic field”, Applied Physics Letters **105**, 072405 (2014).
2. Benjamin J. Chapman, Maxwell J. Grossnickle, Thomas Wolf and Minhyea Lee, “Large enhancement of emergent magnetic fields in MnSi with impurities and pressure”, Physical Review B **88**, 214406 (2013).
3. E. Zarka-Bajjani, F. Nguyen, Minhyea Lee, L. R. Vale, R. W. Simmonds and José Aumentado, “Quantum superposition of a single microwave photon in two different ‘Colour’ state”, Nature Physics **7**, 599-603 (2011).
4. Minhyea Lee, L. Viciu, L. Li, Y. Wang, M.L. Foo, S. Watauchi, R.A. Pascal Jr., R.J. Cava, and N. P. Ong, “Large enhancement of Thermopower in Na_xCoO_2 at high Na doping”, Phys. Rev. Lett. **118**, 187203 (2017).
5. Minhyea Lee, L. Viciu, L. Li, Y. Wang, M.L. Foo, S. Watauchi, R.A. Pascal Jr., R.J. Cava, and N. P. Ong, “Large enhancement of Thermopower in Na_xCoO_2 at high Na doping”, Nature Materials **5**, 537- 540, (2006).

(D) Synergistic Activities

- Journal referee for Applied Physics Letter, Journal of Applied Physics, Nature, Nature Materials, Nature Nanotechnology, Physics Physical Review B, Physical Review Letters, Science and Science Advance.
- Grant reviewer for U.S. DOE, French National Agency of Research, U.S.-India Binational Science Foundation.
- Member of American Physical Society
- Organizer for Conference for Undergraduate Women in Physics 2017, Boulder CO.