Katherine N. Quinn | Publication List

PhD Candidate, Physics
Cornell University
Physical Sciences Building, Room 425(A)
245 East Ave, Ithaca, NY 14850

knq2@cornell.edu
katherineq.com

Peer-Reviewed Publications

Current **Katherine N. Quinn**, Colin B. Clement, Francesco De Bernardis, Michael D. Niemack, and James P. Sethna.
Visualizing probabilistic models: Intensive Principal Component Analysis.
(Under Review with PNAS) https://arxiv.org/abs/1810.02877

2019 **Katherine N. Quinn**, Heather Wilber, Alex Townsend, and James P. Sethna.
Chebyshev approximation and the global geometry of model predictions.
Physical Review Letters **122** 158302
https://link.aps.org/doi/10.1103/PhysRevLett.122.158302

2019 Cole Walsh, **Katherine N. Quinn**, C. Wieman, and N.G. Holmes.
Quantifying critical thinking: Development and validation of the Physics Lab Inventory of Critical thinking (PLIC).
Physical Review, PER (Accepted, May 9 2019)
https://arxiv.org/abs/1901.06961

2019 **Katherine N. Quinn**, Kathryn L. Mcgill, Michelle M. Kelley, Emily M. Smith, and N.G. Holmes.
Who does what now? How physics lab instruction impacts student behaviors.
2018 Physics Education Research Conference Proceedings
http://dx.doi.org/10.1119/perc.2018.pr.Quinn

2019 Cole Walsh, **Katherine N. Quinn**, and N. G. Holmes.
Assessment of critical thinking in physics labs.
2018 Physics Education Research Conference Proceedings
http://dx.doi.org/10.1119/perc.2018.pr.Walsh

2018 **Katherine N. Quinn**, Carl E. Wieman, and N.G. Holmes.
Interview Validation of the Physics Lab Inventory of Critical thinking (PLIC).
2017 Physics Education Research Conference Proceedings pp. 234-237
https://doi.org/10.1119/perc.2017.pr.076

2017 James P. Sethna, Matthew K. Bierbaum, Karin A. Dahmen, Carl P. Goodrich, Julia R. Greer, Lorien X. Hayden, Jaron P. Kent-Dobias, Edward D. Lee, Danilo B. Liarte, Xiaoyue Ni, **Katherine N. Quinn**, Archishman Raju, D. Zeb Rocklin, Ashivni Shekhawat, and Stefano Zapperi.
Deformation of Crystals: Connections with Statistical Physics.
Annual Review of Materials Research **47** pp. 217-246
https://doi.org/10.1146/annurev-matsci-070115-032036

2013 **Katherine Quinn**, D.H. Ryan, P.C. Canfield, S.L. Bud'ko, and J.M. Cadogan.
A search for field-induced ordering in the optimally doped Ba(Fe,Co)2As2 superconductor.
Journal of Applied Physics **113** 17E127
https://doi.org/10.1063/1.4795421

Publications in Preparation

Current **Katherine N. Quinn**, Mark K Transtrum, Ben Machta, and James Sethna.
Multiparameter models in physics.
(Invited by *Reports on Progress in Physics*)