

**LUCIA STEINKE**

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October 31, 2018  
Faculty search committee  
Texas Tech University  
Department of Physics and Astronomy  
Lubbock, TX 79409-1051  
USA

Dear Committee Members,

please accept my application for the currently open position of Assistant Professor in the Department of Physics and Astronomy (15145BR) at Texas Tech University.

I am presently employed by the Department of Physics & Astronomy at Texas A&M University in the role of Associate Research Scientist, working in the group of Prof. Meigan Aronson, former Dean of Science. I have also initiated collaboration with H. Rusty Harris' group in the department of Electrical and Computer Engineering at Texas A&M, to develop device applications based on newly discovered topological insulator materials. After Prof. Aronson left Texas A&M University for her new appointment at the University of British Columbia, I chose to stay at Texas A&M, to conclude my joint projects with students in Electrical and Computer Engineering, and to create a solid basis for future collaborative work.

I am an experimental physicist with extensive postdoctoral experience, specialized in semiconductor nanostructures, strongly correlated electron systems, and materials science with a recent focus on topological materials. I believe my diverse experience and research interests - from studying the basic physics of new topological materials to possible applications in thermoelectrics and quantum information - would allow for exciting interdisciplinary projects at the junction between condensed matter physics and electrical engineering.

I would be pleased to assume a more senior role as Assistant Professor soon, and hope to broaden my experience in both research and classroom teaching. I therefore hope that you will consider my application favorably.

Sincerely,

  
Lucia Steinke