## **Topology and Geometry of Bloch Electrons**

The 2016 Nobel Prize for physics was a great celebration of our understanding of topological phases and transitions, part of which dates back to pioneering work of David Thouless and his collaborators when I was a graduate student with him 37 years ago. I was fortunate to be able to witness and even participate the development of this topological theory of Chern insulators at the beginning of my career. In this talk, I will give an "inside look" at topological Chern numbers, not only from my personal perspective, but also concentrating on its physical content, the Berry curvatures, to see how such topological and geometrical concepts have transformed our view of solid state physics. Department of Physics University of Vermont

Theoretical and Applied Physics

Fall 2019

Dr. Qian Niu Trull Centennial Professor University of Texas at Austin

Wednesday, October 9th 4:00 PM Innovation Hall

Room E430

Refreshments will be available at

3:30 PM.

**E217 Innovation** 

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