## Extended topological field theory and the 2-dimensional Ising model Dan Freed (University of Texas at Austin)

Abstract: Topological field theory originated in the 1980's in papers of Witten, and there have been many extensions and variations since. Recently these ideas have found many new applications in condensed matter physics. .After reviewing these developments briefly I will describe joint work with Constantin Teleman in which we cast topological eyes on a well-studied system in condensed matter physics.