

## **MCQM PhD Lecture: Christian Brennecke (Universität Bonn)**

*Wednesday, 29 May 2024 11:30 (1 hour)*

Title: An Introduction to the SK Model, Classical and Quantum

Abstract: In this talk, I give an introduction to the classical SK model and some of its variants, including a quantum version with a transverse field. I discuss basics on replica symmetry breaking, the Parisi formula and some open questions related to the RS-RSB transition. The goal of the talk is to prepare the audience for a detailed discussion of a quantum version of the Parisi formula.