

GRADUATE SEMINAR

Adili Masanika

Complete Order Equivalence of Spin Unitaries

MSc Student supervised by Douglas Farenick and Sarah Plosker

Date: Thursday, June 18, 2020

Time: 9:30 - 10:30am

Location: Zoom

Abstract: We explore linear spaces of matrices and linear maps on matrix spaces that arise from *spin systems*, or *spin unitaries*, which are finite sets \mathcal{S} of selfadjoint unitary matrices such that any two distinct unitaries in \mathcal{S} anticommute. In this lecture I will outline the proof that any two spin systems of equal cardinality are completely order equivalent, regardless of the dimensions of the spaces upon which the unitaries act.