

GRADUATE SEMINAR

Adili Masanika

Operator Systems and Algebras Affiliated with Spin Unitaries

MSc Student supervised by Douglas Farenick and Sarah Plosker

Date: Tuesday April 21, 2020

Time: 2:00 - 3:00pm

Location: Zoom

Abstract: We discuss linear spaces of matrices and linear maps on matrix algebras that arise from *spin systems*, or *spin unitaries*, which are finite sets \mathcal{S} of selfadjoint unitary matrices such that any two unitaries in \mathcal{S} anticommute. In addition to their linear-algebraic interest, these linear spaces and linear maps are commonly studied in operator algebra theory and in applications that include quantum information theory.