



UCD School of Mathematics and Statistics Colloquium Seminar

Title: Quantum Information: A brief (and somewhat self-indulgent) mathematical introduction

Speaker: Professor David Kribs (University of Guelph, Canada)

Date: Tue 14th May 2019 at 3:00PM

Location: Seminar Room SCN 1.25

Abstract: Quantum information is an umbrella term that has evolved to describe the collection of theoretical and experimental efforts over the past two decades focused on the development of quantum technologies. Advances in quantum information have also included the discovery of interesting new mathematics, and connected the subject with several well-developed areas of mathematics along the way, leading to new opportunities for applied mathematics as well. In this talk, I will review some central aspects of the basic mathematical foundation for quantum information. I'll then touch on as many different areas in the subject that I can fit into the rest of the talk, (possibly) including (very) brief introductions to quantum error correction, quantum algorithms, and quantum entanglement theory.