UWI
MONA CAMPUS
JAMAICA, WEST INDIES

FACULTY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF MATHEMATICS

Join us for a Seminar By our Alumnus

Runako Williams, Ph.D.

Assistant Professor

Mathematics Department

University of the Bahamas

Title: **K-theoretic Donaldson Invariants**

Abstract: Moduli spaces of sheaves on algebraic surfaces have been studied for a long time. A particular source of interest became the Donaldson Invariants which are invariants of differentiable 4 manifolds X. The computation of Donaldson invariants in general is quite difficult. However in the case that X is an algebraic surface S, the Donaldson Invariants can be computed as intersection numbers of moduli spaces of rank 2 torsion free sheaves MSH(c1, c2) on S with Chern classes c1,c2. In this talk we discuss a K-theoretic analogue of the Donaldson invariants and present a conjectured formula for their generating functions.

Date: Friday April 8, 2022

Time: 11:00 a.m.

Zoom: https://us06web.zoom.us/j/87305771303?pwd=eXZSRUdRZklEaFFaQ3ZCcEtJczZBUT09