

Speaker: **Marc Rieffel**

Title: **How can matrix algebras converge to the sphere (or other spaces)?**

Abstract

I will review my work of recent years on making precise the statements in the theoretical high-energy-physics literature to the effect that matrix algebras converge to various spaces such as the 2-sphere. I will include my most recent ideas on this, including my (provisional) definition of what is meant by a C^* -metric space, and what is meant by the distance between two C^* -metric spaces. I will illustrate this with the example of the 2-sphere.