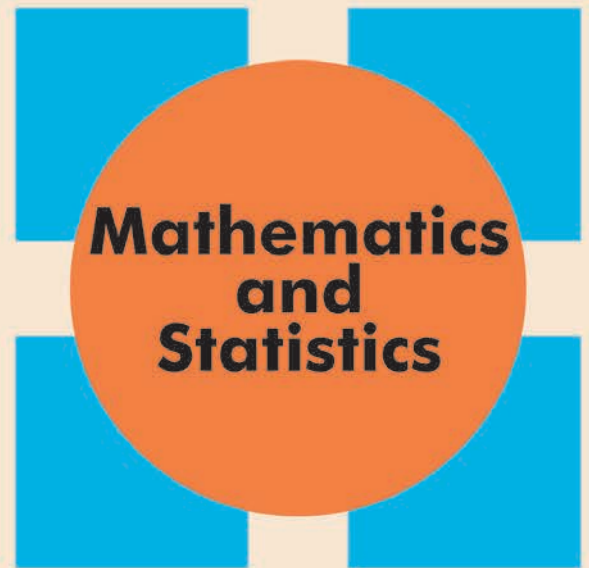


# Math Grad Seminar

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## Noncommutative two torus in a nutshell



Date: Nov. 21, 2016

Time: 12:30 - 1:30 PM

Room: Math Lounge 307.20

### Abstract:

The purpose of this presentation is to introduce a  $C^*$ -algebra, called the noncommutative torus, which can be regarded as the noncommutative analogue of the classical 2-dimensional torus. The main focus will be on how this  $C^*$ -algebra has emerged from quantum physics, how the abstract definition works, and how it can be realized and represented. In the end, we will briefly discuss the recent works on understanding the geometry of the noncommutative torus through the notion of spectral triple.