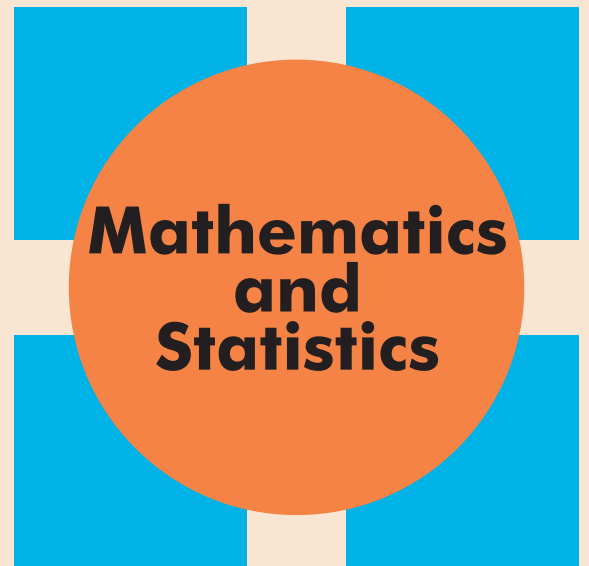


COLLOQUIUM

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Linear isometries and
contractions on density
spaces of C^* -algebras with
respect to the Bures
metric



Date: November 23, 2018

Time: 3:30 - 4:30 PM

Room: RI 208

Abstract: A density space in a unital C^* -algebra having a faithful trace is the set of all positive elements of unit trace. Linear maps on the algebra that preserve the density space are automatically continuous and, with respect to the Bures metric, nonexpansive. In this lecture I will discuss joint work with Sam Jaques and Miza Rahaman concerning the structure of Bures-isometries and the spectral theory of Bures-contractions. With regards to this latter class of maps, some interesting connections with the Perron-Frobenius theory will be noted.