

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE
UNIVERSITY OF SOUTHERN DENMARK, ODENSE

Mathematics seminar

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Circle and sphere bundles in noncommutative geometry

Monday 4 June 2018, 14:15-15:15
IMADA seminar room

Abstract

In this talk, I will recall how Pimsner algebras of self Morita equivalences can be thought of as total spaces of quantum circle bundles, and the associated six term exact sequence in K-theory can be interpreted as an operator algebraic version of the classical Gysin sequence for circle bundles. After reviewing some results in this direction, I will report on work in progress concerning the construction of higher dimensional quantum sphere bundles in terms of Cuntz-Pimsner algebras of sub-product systems. Based on (ongoing) joint work with G. Landi and J. Kaad.

Host: David Kyed