

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

Mathematics seminar

Olivier Gabriel
Københavns Universitet

Free actions of compact quantum groups and spectral triples

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IMADA seminar room

Abstract

In this report on joint work in progress with Ryszard Nest, we start with a discussion of free actions of compact quantum groups and spectral triples. We then proceed to investigate the "permanence properties" of spectral triples: if a (quantum) group G acts freely on a C^* -algebra A , let us call B the fixed point algebra A^G . Given a spectral triple on B , we construct a spectral triple on A and identify it in terms of Kasparov product.