

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

## **Mathematics seminar**

**Magnus Goffeng**  
**Gothenburg**

### **Boundaries and/of noncommutative geometry**

**Thursday 4 May 2017, 14:15-15:15**  
**IMADA seminar room**

#### **Abstract**

While spectral triples are the analogue of complete manifolds in noncommutative geometry, it remains unclear if there is a noncommutative description of manifolds with boundaries. We discuss one approach to introducing boundaries into spectral triples: relative spectral triples. This approach come with good KK-theoretical properties, but computing what the boundary is provides a technical challenge. Based on joint work with Iain Forsyth, Bram Mesland, and Adam Rennie.

**Host: David Kyed**