## The Mackey analogy in representation theory

Nigel Higson
Penn State University

Thursday, May 24, 2007 007 Kemeny Hall, 4:00 pm (Tea 3:30 pm 300 Kemeny Hall)

## **Abstract**

Through his fundamental work on induced representations, George Mackey (1916-2006) was a key contributor to the theory of infinite-dimensional unitary representations of groups. The Mackey analogy is a proposal, due to Mackey, that there ought to be a certain similarity between the unitary representations of Lie groups and the unitary representations of "contractions" of these groups. I shall try to explain this in my talk, and then explain how C\*-algebra theory and K-theory prompts us to take a new look at Mackey's proposal.