Meeting: 999, Nashville, Tennessee, SS 3A, Special Session on Index Theory and the Topology of Manifolds

999-19-68　　　　　**Nigel Higson*** (`higson@psu.edu`), Department of Mathematics, Penn State Unversity, University Park, PA 16802. *Deformations and the Baum-Connes assembly map for complex semisimple Lie groups.* Preliminary report.

It is well known how to describe the Baum-Connes assembly map using deformations of operator algebras (or in other words asymptotic morphisms). In this lecture I will indicate how a detailed computation of the deformation makes precise a correspondence between the representations of a semisimple group and its Cartan motion group that was originally proposed by Mackey. (Received August 06, 2004)