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**REYER SJAMAAR**, Cornell University

*Induction of representations and Poincare duality*

In 1965 Bott enumerated all possible ways to induce representations of compact Lie groups by means of elliptic differential operators. This led to generalizations of the Weyl character formula. I will review and update Bott's work and discuss some applications to K-theory. This is a report on joint work with Greg Landweber.