

COLLOQUIUM
UNIVERSITY OF PITTSBURGH
FRIDAY, SEPTEMBER 25, 2015

704 THACKERAY HALL

3:30 P.M.

REYER SJAMAAR

CORNELL UNIVERSITY, NEW YORK

INDUCTION OF REPRESENTATIONS
& POINCARÉ DUALITY

ABSTRACT: Let G be a group and H a subgroup. Frobenius showed in 1898 how to “enlarge” a representation of H to a representation of G . His method, now called induction, rapidly became a useful tool in algebra and analysis and was adapted by others in various ways. For instance, in 1965 Bott made a systematic study of induction methods based on elliptic differential operators in the context of compact Lie groups, which 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.

Refreshments served at 3:00 p.m.
in the Math Dept. COMMON ROOM, Thackeray 705