1023-46-177 **Marc A. Rieffel*** (`rieffel@math.berkeley.edu`), Department of Mathematics, University of California, Berkeley, CA 94720-3840. *Induced representations, vector bundles, and projections.*

For my study of the relationship between vector bundles and Gromov-Hausdorff distance one needs a quantitative measure of how much a vector bundle twists relative to a metric on the base space. This can be obtained by looking at the Lipschitz constants of projection-valued functions that determine a given vector bundle. Readily accessible examples come from homogeneous spaces of compact groups (e.g. spheres). Equivariant vector bundles then come from induced representations. I will discuss how one finds projections for these equivariant vector bundles and calculates their Lipschitz constants. (Received August 19, 2006)