1051-53-120    **Martin Kerin** and **Krishnan Shankar\*** (`shankar@math.ou.edu`), Department of Mathematics, 601 Elm Avenue, PHSC 423, Norman, OK 73019. *Riemannian submersions from simple, compact Lie groups.*

We construct infinitely many examples of Riemannian submersions $G \longrightarrow B$, where $G$ is a simple, compact Lie group with bi-invariant metric and $B$ is a smooth Riemannian manifold such that $B$ is not a quotient of $G$ by any group action. This partially answers a question of K. Grove's about the structure of Riemannian submersions from compact, Lie groups. (Received August 20, 2009)