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Edward Swartz* (ebs22@cornell.edu), Mathematics Dept., Ithaca, NY 14853. *Topology and Combinatorics of linear quotients of spheres.*

Let G be a finite (or compact) group acting linearly on a unit sphere. The classification of such actions is usually well understood via the (real) representation theory of G . In sharp contrast, the topology of the corresponding quotient spaces is very poorly understood. We will survey a few results and questions in this subject of particular interest to the speaker. (Received August 08, 2010)