1020-47-254Raluca Dumitru* (dumitrra@email.uc.edu), 839 Old Chem (ML:0025), Cincinnati, OH 45221.
Subspaces of spherical functions of the crossed product.

Let δ be an action of a compact quantum group G on a C*-algebra B. We give necessary and sufficient conditions for the simplicity of the crossed product $B \times_{\delta} G$ in terms of certain subspaces of spherical functions. (Received August 29, 2006)