Equivariant maps between representation spheres of cyclic p-groups

(   )

Abstract. We will consider necessary conditions for the existence of equivariant maps between the unit spheres of unitary representations of a cyclic p-group G. Bartsch gave a necessary condition for some unitary representations of G by using equivariant K-theory. In this talk, we will give two necessary conditions following Bartsch's approach. One is a generalization of Bartsch's result for all unitary representations of G with fixed point free actions. The other gives a stronger necessary condition under stronger assumptions.