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Characterizing G -ANR's for proper group actions

For a locally compact group G , we will consider extension properties of orbit spaces of proper (in the sense of R. Palais) G -spaces. For any Lie group G , we give a characterization of G -A(N)R's in terms of the H -fixed point sets, where H runs the family of all compact subgroups of G . Applications and related open problems will be discussed.