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Title:	Zero sets of equivariant maps from products of spheres to Euclidean spaces
Authors:	Singh, Mahender (/jspui/browse?type=author&value=Singh%2C+Mahender)
Keywords:	Antipodal map Cohomological dimension Continuous cohomology Equivariant map
Issue Date:	2016
Publisher:	Elsevier
Citation:	Topology and its Applications, 202, pp. 7-20
Abstract:	Let E→B be a fiber bundle and E'→B be a vector bundle. Let G be a compact group acting fiber preservingly and freely on both E and E'-0, where 0 is the zero section of E'→B. Let f:E→E' be a fiber preserving G-equivariant map, and let $Zf=\{x \in E \mid f(x)=0\}$ be the zero set of f. It is an interesting problem to estimate the dimension of the set Zf. In 1988, Dold [5] obtained a lower bound for the cohomological dimension of the zero set Zf when E→B is the sphere bundle associated with a vector bundle which is equipped with the antipodal action of G=Z/2. In this paper, we generalize this result to products of finitely many spheres equipped with the diagonal antipodal action of Z/2. We also prove a Bourgin-Yang type theorem for products of spheres equipped with the diagonal antipodal action of Z/2.
Description:	Only IISERM authors are available in the record.
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