

## ON THE DEGREE OF SET-VALUED MAPS

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A set-valued map can not induce a canonical homomorphism between cohomologies in general. An admissible map is a set-valued map which induce a homomorphism between cohomologies. L. Górniewicz defined the degree of admissible maps and studied it. For an ordinally continuous map between manifolds, the degree of the map is an integer. Note that the degree of an admissible map is a subset of the set  $\mathbf{Z}$  of all integers. In this talk, we will study the degree of admissible maps between manifolds. Moreover we will have a Borsuk-Ulam type theorem on set-valued maps from a  $\mathbf{Z}_2$ -manifold to  $S^n$ .

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