

[Ageev, S. M.](#)

Classification of G -spaces. (English. Russian original) [Zbl 0812.57024](#)

[Russ. Acad. Sci., Izv., Math. 41, No. 3, 581-591 \(1993\)](#); translation from [Izv. Ross. Akad. Nauk, Ser. Mat. 56, No. 6, 1345-1357 \(1992\)](#).

A complete solution is given of a problem due to *R. S. Palais* [The classification of G -spaces, *Mem. Am. Math. Soc.* 36 (1960; [Zbl 0119.384](#))]. Namely, it is proved that for every compact group G , the equivariant Hilbert cube is an n -universal G -space, for every n .

Reviewer: [D.Repovš \(Ljubljana\)](#)

MSC:

[57S10](#) Compact groups of homeomorphisms

[57S15](#) Compact Lie groups of differentiable transformations

[55R35](#) Classifying spaces of groups and H -spaces in algebraic topology

[54C55](#) Absolute neighborhood extensor, absolute extensor, absolute neighborhood retract (ANR), absolute retract spaces (general properties)

[54F45](#) Dimension theory in general topology

[57N20](#) Topology of infinite-dimensional manifolds

Keywords:

[compact Lie group](#); [G-bundle](#); [equivariant Hilbert cube](#); [n-universal G-space](#)

Full Text: [DOI](#)