Countable approximation of topological $G$-manifolds: compact Lie groups $G$.
(English summary)

In the paper under review it is proved that if $G$ is a compact Lie group, then any topological $G$-manifold $M$ is $G$-homotopy equivalent to a countable $G$-equivariant CW complex $C$. Furthermore, if the manifold $M$ is compact, then the CW complex $C$ can be chosen to be finite-dimensional.

Sergey A. Antonyan

References

9. Frank Connolly, James F. Davis, Qayum Khan, Topological rigidity and $H_1$-negative involutions on tori, Geom. Topol. 18 (3) (2014) 1719–1768. MR3228461
34. Edwin E. Mose, Affine structures in 3-manifolds, V. The triangulation theorem and Hauptvermutung, Ann. Math. (2) 56 (1952) 96–114. MR0048805

Note: This list reflects references listed in the original paper as accurately as possible with no attempt to correct errors.

© Copyright American Mathematical Society 2018