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Polish G-space

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Related topic BasicResultsInTopologicalGroups

Definition 0.1. Let X be a http://planetmath.org/TopologicalGSpacetopological G-space, and G its associated topological group, that is, such that an action a of G on X is continuous if $a: G \times X \to X$ is continuous. If G is a Polish group and X is also a Polish space, then X is called a *Polish G-space*.

References

[1] Howard Becker, Alexander S. Kechris. 1996. The Descriptive Set Theory of Polish Group Actions Cambridge University Press: Cambridge, UK, p.14.