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Topological groups

Definition. Topological group

A group object in **Top**.

Current note has 7 direct children and 9 total descendants.

- structures based on sets
 - Topological spaces
 - Discrete subgroup acting on coset space
 - Topological groups
 - Uniformly continuous functions on a topological group
 - Any onb of identity of a connected topological group generates it
 - Image of discrete subgroups of topological groups
 - Rigidity of discrete groups in topological groups
 - Subsets of topological groups
 - Locally compact Hausdorff topological group
 - Regular representation of a locally compact group
 - Almost invariant vectors of a unitary representation
 - Translation on a topological group

And it has 29 siblings.

- structures based on sets
 - Topological spaces
 - Group action on topological spaces
 - Discrete subgroup acting on coset space
 - Basis and subbasis for a topology.
 - Principal G -bundles over topological spaces
$$G \curvearrowright P \rightarrow X$$
 - Vector bundles over topological spaces
 - Closure of a subset of topological space
 - Locally compact and 2-countable Hausdorff topological spaces are paracompact with countable refinement
 - Covering dimension of topological spaces
 - $\text{EndTop}(X, Y)$
 - Eilenberg–Steenrod functors
$$(H_n : \mathbf{Top} \times \mathbf{Top} \rightarrow \mathbf{Ab}, \partial_n)$$
 - Local fields
 - Local fields of characteristic 0
 - Topological groups
 - Continuous group action on a topological space
 - Intersection of open, dense subsets of a topological space
 - Local topological spaces
 - Covering space of a topological space
 - Borel measures on a topological space
 - Convergence for nets in a topological space
 - Loops and a open cover of a topological space
 - Paths in a topological space
 - Product of topological spaces
 - Ringed topological spaces
 - Sheaf on open sets of a topological space
 - Closed subsets of a topological space
 - Discrete subsets of topological spaces
 - Types of topological spaces
 - Locally compact Hausdorff spaces
 - Topological vector spaces over $\mathbb{R}$ or $\mathbb{C}$