

Topological Sigma Algebra

Why

We often take the topology of a topological space as the generating set for the sigma algebra.

Definition

Given a topological space, the $topological\ sigma\ algebra$ is the sigma algebra generated by the topology.

Notation

Let (A, \mathcal{T}) be a topological space. We denote the topological sigma algebra by $\sigma(\mathcal{T})$.

