



Topological Sigma Algebra

1 Why

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

2 Definition

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

3 Notation

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