



Definition

Given a family of topological spaces $\mathcal{F} = \{(X_\alpha, \mathcal{T}_\alpha)\}_{\alpha \in I}$, the *box topology* of \mathcal{F} is the topology on $X = \prod_{\alpha \in I} X_\alpha$ generated by the set

$$\left\{ \prod_{\alpha \in I} U_\alpha \mid U_\alpha \in \mathcal{T}_\alpha \right\}$$

