Jointly continuous topologies on function spaces

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Abstract

Given two topological spaces X and Y, we denote by $C(X, Y)$ the set of all continuous functions from X to Y. Let α be a nonempty family of subsets of X and $C_\alpha(X, Y)$ be the set $C(X, Y)$ endowed with the set open topology. In this work, we obtain criteria in order that set open topology on $C(X, Y)$ to be jointly continuous.