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Partially Ordered Topological Spaces의 역사적 고찰

By a partially ordered topological space(=po-top-sp) We mean a triple $X=(|X|, \tau, \leq)$ where $(|X|, \tau)$ is a topological space and $(|X|, \leq)$ is a partially ordered set. In 1940's L.Nachbin extended the measure theory and the function theory on topological spaces to these theories on po-top-sp.s. In 1948 he initiated this concept to abstract space with an ordering, called po-top-sp.

Since any topological space may be considered a po-top-sp when it is realized that it has the discrete partial order, the study of po-top-sp not only includes the study of general topology but also reveals many generalization of theory of functional analysis.

Since then, many authors G.Hamel, S.McCartan H.Priestly, L.Ward Jr. K.Hoffmann, J.Lowson and M.Erne have studied systemically.

Recently, B.Banachewski, G.Brummer published the frame theory for bitopological spaces and po-top-sp.s, called biframe.