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Stonean representation of sup-completion of a vector lattice

The study of vector lattices and their relationship with stochastic processes has been an active area of research in recent years. The concept of sup-completion is a powerful tool in this field due to its properties of extending the notion of supremum to partially ordered sets that may not have a natural upper bound. In this talk, we will briefly introduce the field of vector lattices and provide a representation of the sup-completion using the Maeda-Ogasawara theorem. This representation will essentially reduce the sup-completion to studying the properties of continuous functions on the Stone space of the vector lattice. Joint work with Vladimir Troitsky.