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## On the extension of valuations by continuity from polytopes to convex Compact Sets

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The condition of continuity in the Hausdorff metric is known to be a non-trivial and fruitful restriction on a valuation. There are combinatorial constructions of valuations on convex polytopes for which it is not known in general under what conditions on the initial data they produce a continuous valuation. In this talk I will discuss one specific construction of valuations on polytopes, and formulate conditions (sometimes necessary, sometimes sufficient) under which the valuations obtained are continuous.

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