Title: **Hadwiger’s Characterization Theorem**

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Abstract: Hugo Hadwiger proved in 1957 that any continuous rigid-motion-invariant valuation on the set of compact convex sets in $\mathbb{R}^n$ can be written as a linear combination of the intrinsic volumes. Daniel Klain, through some clever “cut and paste” arguments and a trick involving zonoids, was able to shorten the proof. This talk will discuss what valuations and intrinsic volumes are and then outline Klain’s proof of the theorem.

Refreshments will precede the talk at 3:30pm in Bond Hall 300 courtesy of Dr. Richard Gardner.