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The polytope algebra inside the space of generalized valuations

McMullen's polytope algebra is a central object in convex geometry, with close ties to algebraic geometry. In this talk we will recall several constructions from the theory of convex valuations, and then proceed to discuss how the polytope algebra can be studied analytically by densely embedding it into the space of generalized valuations with the convolution product. Based on a joint work with A. Bernig.