A Survey of Ghost Symmetry

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3:00 PM
Rhodes Tower 1516

Abstract: A "ghost symmetry" of a geometric object is a symmetry which appears in some projection of that object. This talk shall survey some theory and examples of this phenomenon. Some highlights include a "symmetry-recovery" property of certain point configurations and non-linear codes, an analogue of the classical characterization of edge-graphs of 3-dimensional convex polytopes due to Steinitz, and some connections to low-dimensional topology.

Refreshments at 2:30PM in RT 1517