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Title: Generalizations of lattice cohomology

Abstract: We are going to discuss some recent developments regarding the lattice cohomology of singularities: in particular the introduction of a method to produce analogous invariants from certain general types of algebraic/combinatorial structures, and how that can be used to construct invariants in a variety of situations, e.g. giving us an analytic analogue to the classical, topological theory in the case of surface singularities.