

7/17 [Liana Heuberger] Combinatorial Reid's Recipe for Dimer Models

Reid's recipe marks interior line segments and lattice points in the fan of G -Hilb with certain nontrivial irreducible representations of G . Our goal is to generalise this by marking the toric fan of a crepant resolution of any affine Gorenstein singularity, in a way that is compatible with both the G -Hilb case and its categorical counterpart known as Derived Reid's Recipe. The result is a combinatorial version of the algorithm via consistent dimer models, whose key ingredient is adapting Nakamura's jigsaw transformations for G -Hilb to our context. This is joint work with Alastair Craw and Jesus Tapia Amador.