

Kapranov

%%%%%%%%%

Title: N-spherical functors and categorification of Euler continuants

Abstract; Euler continuants are universal polynomials expressing the numerator and denominator of a finite continued fraction in terms of its entries. Remarkably, they upgrade to natural complexes of functors built from a given functor and its iterated adjoints. Requiring exactness of some of these complexes leads to the concept of an N-spherical functors which specialize to ordinary spherical functors for $N=4$. Such functors describe N-periodic semi-orthogonal decompositions of (enhanced) triangulated categories and, like ordinary spherical functors, give rise to interesting self-equivalences. Joint work with T. Dyckerhoff and V. Schechtman.

%%%%%%%%%