

Weighted projective lines and equivariantization

Weighted projective lines are introduced by Geigle-Lenzing which give a geometric treatment to the representation theory of canonical algebras. The study of weighted projective lines is closely related to canonical algebras, cluster algebras, compact Riemann surfaces, Hall algebras and quantum algebras, singularity theory, GL order, and so on. In this talk, I will give an introduction to weighted projective lines and equivariantization with respect to finite group actions on additive categories, and show the equivariant equivalence relations between weighted projective lines.