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La technique de coupement à deux côtés pour la conjecture finitistique / Double cut approach for the finitistic conjecture

There is a famous conjecture ("Finitistic conjecture") in Representation theory of artin algebras:

"Given an artin algebra, its finitistic dimension is finite".

(The finitistic dimension is the supremum of the projective dimensions of the modules with finite projective dimension.)

This conjecture has more than 45 years, and is one of the most interesting problems at this area. In the talk we explain a new technique to treat the conjecture, using the Igusa–Todorov function. We exhibit a new family of quivers algebras with finite finitistic dimension.