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tau-Tilting Theory of Gentle Algebras

A modern generalization of tilting theory, called τ-tilting theory, has been recently introduced by Adachi, Iyama and Reiten. Among the various areas of research that τ-tilting theory has already contributed to, in addition to representation theory of algebras, one can mention cluster algebras, stability conditions in physics, combinatorics, lattice theory, etc.

In this poster, I present some of the major results of my joint work with LaCIM Representation Theory Working Group in which we studied τ-tilitng theory of gentle algebras. In particular, over the aforementioned family of algebras, which benefit from rich combinatorics, we give a conceptual model for τ-tilting modules.