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Title: τ^2-stable tilting complexes over weighted projective lines
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Abstract: Weighted projective lines were introduced by Geigle and Lenzing in 1987 in order to provide a geometric approach for investigating the representation theory of Ringel's canonical algebras. The purpose of this lecture is to explain the classification of the τ^2-stable titling complexes of coherent sheaves over a weighted projective line. We will review the notion of weighted projective line and then motivate the above classification problem using Iyama's higher Auslander–Reiten theory, which we will also (briefly) recall.