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TITLE: From higher Auslander-Reiten theory to higher homological algebra

ABSTRACT: In Iyama's higher Auslander-Reiten theory, a fundamental role is played by d -cluster-tilting subcategories and d -almost-split sequences. In this talk, I will introduce d -abelian categories and d -exact sequences as a part of a proposed abstract framework for the investigation of the homological properties of d -cluster-tilting subcategories.



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