Conférence « ARTA III : Avancées en théorie des représentations des algèbres » 16-20 juin 2014

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## Cohen—Macaulay representations of Geigle—Lenzing complete intersections

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As a generalization of weighted projective lines, we introduce a class of commutative rings R graded by abelian groups L, which we call Geigle—Lenzing complete intersections. We will study L-graded Cohen—Macaulay R-modules, and show that there always exists a tilting object in the stable category. As an application we study when (R, L) is d-representation finite in the sense of higher dimensional Auslander—Reiten theory.

Joint work with Herschend, Minamoto and Oppermann.

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