

Exposé du jeudi 10 mars 2011

DERIVED CATEGORY AND RATIONALITY OF CONIC BUNDLES

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Résumé : In this talk I present a joint work with Michele Bolognesi where we show how a standard conic bundle on a rational minimal surface is rational if and only if its derived category admits a semiorthogonal decomposition via derived categories of smooth projective curves and exceptional objects. In particular, even if the surface is not minimal, such a decomposition allows to reconstruct the intermediate Jacobian as the direct sum of the Jacobian of those curves.

1. Les jeudis matin, de 10 h 30 à 11 h 30, salle 004, IRMAR (bâtiment 22), Université de Rennes 1, Campus de Beaulieu