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**Titre :** Derived categories of coherent sheaves in birational geometry

**Résumé :** I will discuss some interactions between derived categories of coherent sheaves and birational geometry, including construction of birational invariants and applications to resolutions of singularities. I will sketch a conjectural definition of the Griffiths component of the derived category and its application for the understanding of birational properties of cubic fourfolds. Also I will discuss categorical resolutions of singularities and different notions of crepancy in the categorical context.