

Séminaire de géométrie algébrique de Rennes<sup>1</sup>

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## **FOURIER–MUKAI FUNCTORS IN GEOMETRIC CONTEXTS**

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**Résumé :** Fourier-Mukai functors play a distinct role in algebraic geometry. Nevertheless two questions remained open : are all exact functors between the bounded derived categories of smooth projective varieties of Fourier-Mukai type? Is the Fourier-Mukai kernel unique? I will provide a negative answer to the latter problem while I will give results partially solving the first one and extending previous results by Lunts, Orlov and Ballard. This is recent work in collaboration with A. Canonaco.

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