

The role of groupoids in the index problem for hypoelliptic operators.

mercredi 31 mai 2017 11:55 (45 minutes)

In the 1980s, Alain Connes gave a conceptually appealing proof of the Atiyah-Singer index theorem using the tangent groupoid. Over time, the tangent groupoid was generalized to more complicated analytic settings. I will discuss the role played by groupoids in the resolution of the index problem for hypoelliptic differential operators on contact manifolds.

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