
Hopf25

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14h-14h25

Rings of differential operators and Hopf algebroids

The ring of differential operators over a smooth algebra A has a canonical Hopf algebroid structure. In this talk, we will introduce some descent techniques for coalgebras which we will then use to determine a class of algebras which are not smooth yet whose rings of differential operators still carry a canonical Hopf algebroid structure. This is joint work with Ulrich Krähmer ([arXiv:2405.08490](https://arxiv.org/abs/2405.08490)).