

Weyl calculus on graded groups

Friday, September 1, 2023 9:00 AM (45 minutes)

In this talk we will discuss a class of symmetric pseudo-differential calculi on graded nilpotent Lie groups using the Hörmander symbol classes introduced by V. Fisher and M. Ruzhansky. Among the quantizations generating these calculi, we shall identify a candidate Weyl quantization on general graded nilpotent Lie groups by comparison with the well-know Weyl quantization on \mathbb{R}^n . Finally, we will see that in the case of the Heisenberg group our candidate Weyl quantization coincides with the only possible one.

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