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*“Semi-classical analysis of sublaplacian on step 2 nilmanifolds”*

In this talk, we describe results obtained in collaboration with Véronique Fischer and Steven Flynn, both from the university of Bath. We develop semi-classical technics on graded nilpotent Lie groups and explain how to adapt them to nilmanifolds obtained as the left quotient of these groups by co-compact subgroups. As an application, we derive properties of sequences of eigenfunctions of the sub-Laplacian of a nilmanifold in the case where the group has two steps.

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