

Abstract:

Weyl-type asymptotics have a long history, originating with the pioneering work of H. Weyl. In our recent work, we establish a spectral asymptotic formula for the negative powers of hypoelliptic operators on graded Lie groups. Along the way, we derive elliptic estimates for hypoelliptic operators on graded Lie groups without relying on pseudodifferential calculus, which is a common tool in this area.

This is a joint work with Edward McDonald, Fedor Sukochev, and Dmitriy Zanin.