

[Askour, Neur Eddine; Mouayn, Zouhair](#)

Resolvent kernel for the Kohn Laplacian on Heisenberg groups. (English) Zbl 1004.47002
Electron. J. Differ. Equ. 2002, Paper No. 69, 15 p. (2002).

The authors present a formula that relates the Kohn Laplacian and the magnetic Laplacian on the Heisenberg groups and find their spectral density. Also they obtain the Green kernel for fractional powers of the Kohn Laplacian.

Reviewer: [Mircea Puta \(Timișoara\)](#)

MSC:

- [47A10](#) Spectrum, resolvent
- [34A05](#) Explicit solutions, first integrals of ordinary differential equations
- [35C15](#) Integral representations of solutions to PDEs
- [34B27](#) Green's functions for ordinary differential equations
- [47A60](#) Functional calculus for linear operators

Cited in **3** Documents

Keywords:

[Kohn Laplacian](#); [magnetic Laplacian](#); [Heisenberg group](#); [spectral density](#); [Green kernel](#); [fractional powers](#)

Full Text: [EuDML](#) [EMIS](#)