Sharp Gårding for compact Lie groups

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Abstract:

In our recent joint work with M. Ruzhansky (Imperial College London), we established the sharp Gårding inequality on compact Lie groups. The symbol positivity condition is expressed in the non-commutative phase space in terms of the full global symbol, which is defined using the representations of the group. Especially, Fourier series case on torus will be discussed in detail.