

L^p boundedness for pseudo-multipliers associated to the harmonic oscillator

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We will present Hörmander type conditions for the L^p -boundedness of pseudo-multipliers and spectral pseudo-multipliers associated to the harmonic oscillator. With the presented conditions we solve an open problem proposed by Bagchi and Thangavelu on the L^2 -boundedness of pseudo-multipliers.

Joint work with Prof. Michael Ruzhansky.