UNICAMP – IMECC
Departamento de Matemática

Seminário de Sistemas Dinâmicos e Estocásticos

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Título: Complex powers of differential operators:
Applications to Bessel operator

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Resumo. In this talk we shall describe a method to study non-negativity of linear differential operators with coefficients of class C^∞ on a weight Lebesgue space. This approach is based on the non-negativity of similar differential operators (which have the same spectral properties) on weight Lebesgue spaces. If these new operators are formally self-adjoint and are not negative, we can study their powers through a appropriate spaces of distributions. In particular we apply this method to Bessel-type operators.