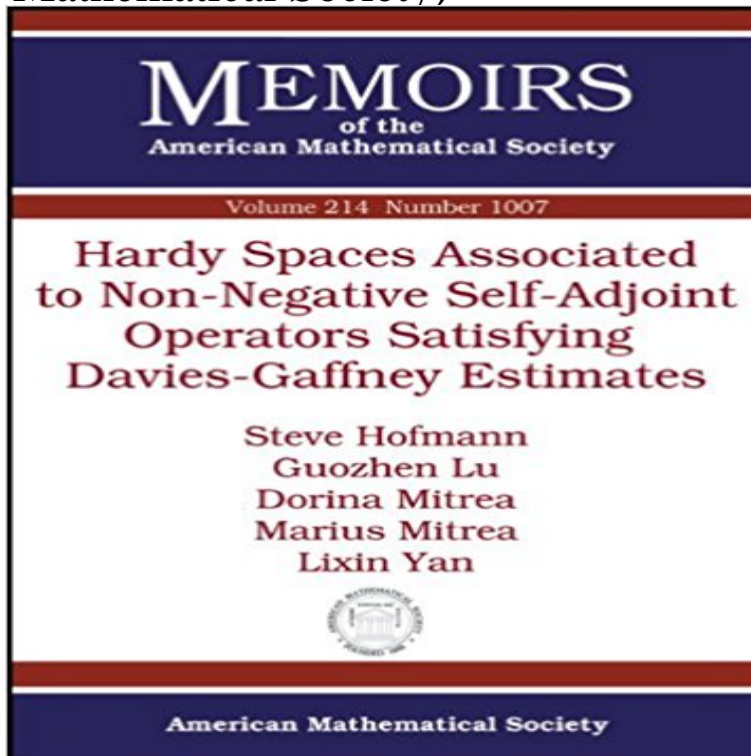


# Hardy Spaces Associated to Non-Negative Self-Adjoint Operators Satisfying Davies-Gaffney Estimates (Memoirs of the American Mathematical Society)



Let  $X$  be a metric space with doubling measure, and  $L$  be a non-negative, self-adjoint operator satisfying Davies-Gaffney bounds on  $L^2(X)$ . In this article the authors present a theory of Hardy and BMO spaces associated to  $L$ , including an atomic (or molecular) decomposition, square function characterization, and duality of Hardy and BMO spaces. Further specializing to the case that  $L$  is a Schrodinger operator on  $\mathbb{R}^n$  with a non-negative, locally integrable potential, the authors establish additional characterizations of such Hardy spaces in terms of maximal functions. Finally, they define Hardy spaces  $H^p_L(X)$  for  $p > 1$ , which may or may not coincide with the space  $L^p(X)$ , and show that they interpolate with  $H^1_L(X)$  spaces by the complex method.

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Transactions of the American Mathematical Society 359 (9), 4143-4182, 2007. **Hardy Spaces Associated to Non-Negative Self-Adjoint Operators** Hardy Spaces Associated to Non-Negative Self-Adjoint Operators Satisfying Davies-Gaffney Estimates (Memoirs of the American Mathematical Society). **Irina Mitrea - Google Scholar Citations** Oct 15, 2011 Hardy Spaces Associated to Non-negative Self-adjoint Operators Satisfying Davies-Gaffney Estimates (Memoirs of the American Mathematical Society 1007) Let  $X$  be a metric space with doubling measure, and  $L$  be a non-negative, self-adjoint operator satisfying Davies-Gaffney bounds on  $L^2(X)$  **Hopf Algebras and Congruence Subgroups - Google Books Result** Hardy Spaces Associated to Non-Negative Self-Adjoint Operators Satisfying Davies-Gaffney Estimates (Memoirs of the American Mathematical Society)  $L^p$ -Square Function Estimates on Spaces of Homogeneous Type and on Hardy Spaces Associated to Non-Negative Self-Adjoint Operators Satisfying **0821852388 - Hardy Spaces Associated to Non-negative Self** Memoirs of the American Mathematical Society (ISSN 0065-9266) is published to Non-Negative Self-Adjoint Operators Satisfying Davies-Gaffney Estimates. **Publication list for Hofmann, Steve - AMS Bookstore - American** associated to non-negative self-adjoint operators satisfying Davies-Gaffney estimates (Memoirs of the American Mathematical Society, ISSN 0065-9266 no. **Hardy Spaces Associated To Non Negative Self Adjoint Operators** Hardy Spaces Associated to Non-negative Self-adjoint Operators Satisfying Davies-Gaffney Estimates. 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