

One-parameter operator groups on Hardy spaces

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We plan to discuss one-parameter operator groups, specifically holomorphic extensions with respect to the parameter, from the real line to suitable horizontal strips in the complex plane, as well as Kubo–Martin–Schwinger boundary conditions that occur in quantum field theory. These holomorphic extensions are applied in the study of certain representations of Lie groups on Hardy spaces.

The presentation is based on joint work with Karl-Hermann Neeb.