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Andy Raich* (andrew.raich@math.wisc.edu), Department of Mathematics, Texas A&M University, Mailstop 3368, College Station, TX 77843-3368. *Heat Kernel Estimates with Applications to Complex Analysis.*

I will present recent work on obtaining pointwise estimates on a family of heat kernels in $(0, \infty) \times \mathbb{C}$. I will discuss applications to and motivations from questions in one and several complex variables. (Received January 19, 2007)