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Zhengui Huo* (huo3@illinois.edu), Urbana, IL 61801. *The Bergman kernel on Reinhardt domain.*

We provide a new method to compute the Bergman kernel on some Reinhardt domains. We express the kernel on this domain in \mathbb{C}^{n+1} in terms of an already known kernel on a domain in \mathbb{C}^n and a first order differential operator. We find, for example, an exact formula for the kernel on $\{(z, w) \in \mathbb{C}^{n+1}; \|z\|^2 < e^{-|w|^2}\}$. (Received December 15, 2014)