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Damin Wu* (damin.wu@uconn.edu). *Heat kernel on Poincaré punctured disk.*

In this talk I will give an explicit formula for the heat kernel on Poincaré punctured disk. Then the formula is used to derive the Green's function on the quasi-projective manifold. We will apply the Green's function to study some canonical metrics on the quasi-projective manifolds. Part of my talk is based on an ongoing work joint with Xiaowei Wang. (Received September 02, 2012)