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Finite ball quotients and algebraicity of the Bergman kernel

The Bergman kernel is an important biholomorphic invariant of domains in \mathbb{C}^n and, more generally, of complex analytic spaces. It is a classical problem to characterize simple “model” domains by properties of their Bergman kernels or Bergman metrics. In this talk, we shall discuss a characterization of two dimensional finite ball quotients by algebraicity of their Bergman kernels, and some properties of the Bergman metrics on finite ball quotients. This is a joint work with P. Ebenfelt and M. Xiao. (Received March 07, 2021)