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David E Barrett* (barrett@umich.edu). *Hearing domains in projective space*. Preliminary report.

A famous question of (Bers-Bochner-)Kac asks to what extent a domain in \mathbb{R}^2 can be recovered up to isometry from the unitary equivalence class of its (self-adjoint [compact]) Green's operator. This talk will explore the question of to what extent a (strongly \mathbb{C} -convex) domain in complex projective space can be recovered (up to projective automorphism) by the unitary equivalence class of its (non-self-adjoint) Leray integral (projection) operator. (Received August 28, 2020)