

# The pluricomplex Poisson kernel for convex finite type domains

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Bracci-Patrizio-Trapani introduced the pluricomplex Poisson kernel in strongly convex domains as a generalization of the classical Poisson Kernel in the disk. This kernel is a solution to a homogeneous Monge-Ampere problem with a simple singularity at the boundary, and it turns out to be (minus) the normal derivative at the boundary of the Green function. Furthermore, its sublevel sets are the horospheres with respect to the Kobayashi distance. I will show how to generalize this kernel in convex finite type domains, using a new approach based on metric geometry. This is a joint work with L. Arosio and F. Bracci.