

İSTANBUL ANALYSIS SEMINARS

ESSENTIAL NORM ESTIMATES FOR HANKEL OPERATORS ON CONVEX DOMAINS IN \mathbb{C}^2

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Abstract: Let Ω be a bounded convex domain in \mathbb{C}^2 with C^1 -smooth boundary and $\varphi \in C^1(\bar{\Omega})$ such that φ is harmonic on the analytic discs in the boundary. We estimate the essential norm of the Hankel operator H_φ in terms of the $\bar{\partial}$ derivatives of φ “along” the discs in the boundary. This is joint work with Zeljko Cuckovic.

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