İSTANBUL ANALYSIS SEMINARS

L^p-REGULARITY OF THE BERGMAN PROJECTION

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Abstract: Let Ω be a bounded domain in \mathbb{C}^n . We denote the space of square integrable functions on Ω by $L^2(\Omega)$ and the space of square integrable holomorphic functions on Ω by $A^2(\Omega)$. The Bergman projection \mathbf{B}_{Ω} is the orthogonal projection operator from $L^2(\Omega)$ onto $A^2(\Omega)$. In this talk, we investigate the regularity of \mathbf{B}_{Ω} on L^p -spaces. We present results that relate the regularity of \mathbf{B}_{Ω} to some geometric properties of Ω .

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Place: Sabancı University, Karaköy Communication Center Bankalar Caddesi 2, Karaköy 34420, İstanbul