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Estimates for the $\bar{\partial}$ -Neumann Operator On Strongly Pseudo-Convex Domain With Lipschitz Boundary

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Abstract: On a bounded strongly pseudo-convex domain X in \mathbb{C}^n with a Lipschitz boundary, we prove that the $\bar{\partial}$ -Neumann operator N can be extended as a bounded operator from Sobolev $(-1/2)$ -spaces to the Sobolev $(1/2)$ -spaces. In particular, N is compact operator on Sobolev $(-1/2)$ -spaces.



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