
Compactness estimates for the $\bar{\partial}$ -Neumann problem in weighted L^2 -spaces*Friedrich Haslinger* (Univ. Wien)

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We discuss compactness estimates for the $\bar{\partial}$ -Neumann problem in the setting of weighted L^2 -spaces on \mathbb{C}^n . For this purpose we use a version of the Rellich - Lemma for weighted Sobolev spaces. In addition a connection to spectral analysis of Schrödinger operators is pointed out. (common work with Klaus Gansberger).

- [1] K. GANSBERGER AND F. HASLINGER: Compactness estimates for the $\bar{\partial}$ - Neumann problem in weighted L^2 - spaces, arXiv: 0903.1783, *Proceedings of the conference on Complex Analysis 2008 in honour of Linda Rothschild, Fribourg 2008, to appear.*