

COMPACTNESS OF THE SOLUTION OPERATOR TO d -BAR IN WEIGHTED L^2 -SPACES

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We discuss compactness of the canonical solution operator to d -bar on weighted L^2 -spaces on C^n . For this purpose we apply ideas which were used for the Witten Laplacian in the real case and various methods of spectral theory of these operators. In the one-dimensional case we use the reverse Hölder class for a complete characterization. We also discuss properties of the weight function implying that the corresponding weighted space of entire functions is of infinite dimension.