

BILINEAR EMBEDDING FOR SCHRÖDINGER-TYPE OPERATORS WITH COMPLEX COEFFICIENTS

ANDREA CARBONARO AND OLIVER DRAGIČEVIĆ

Abstract: We prove a variant of the so-called bilinear embedding theorem for operators in divergence form with complex coefficients and with nonnegative locally integrable potentials, subject to mixed boundary conditions, and acting on arbitrary open subsets of \mathbb{R}^d .

2020 Mathematics Subject Classification: 35J10, 35J15, 47D06, 42B25.

Key words: elliptic operators, Schrödinger operators, bilinear embedding, Bellman function.