

Titel: Invariant graph subspaces and block diagonalization

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Abstract:

The problem of decomposition for unbounded self-adjoint 2×2 block operator matrices by a pair of orthogonal graph subspaces is discussed. As a byproduct of our consideration, a new block diagonalization procedure is suggested that resolves related domain issues. The results are discussed in the context of a two-dimensional Dirac-like Hamiltonian.

The talk is based on joint work with Konstantin A. Makarov and Stephan Schmitz.
