İSTANBUL ANALYSIS SEMINARS

BIORTHOGONAL EXPANSIONS AND BASIS OF THE SPACE L^2

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Abstract: The following questions will be considered:

- Necessary and sufficient conditions for the Riesz basis in the space of systems of eigenfunctions and associated functions of nonselfadjoint second order differential operators.

- Solution of the problem of the choice of associated functions of nonselfadjoint differential operators.

- Necessary and sufficient conditions for the Riesz basis and unconditional basis in the space L^2 of an arbitrary system of elements in this space.

- The basis properties of eigenfunctions of nonclassical model differential operators.

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