ABOUT CONVERGENCE THE HALF-DISCRETE GALERKIN METHOD FOR THE SHREDINGER TYPE EQUATION

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A linear problem of Schrödinger type is considered in variational form in a separable Hilbert space. Discretisation of that problem on space is spent by the Galerkin method. Convergence in various norms of the approximated solutions to an exact solution is established and estimations of a velocity of convergence are received.