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## A method for numerical solution of a non-stationary Schrödinger equation based on Lee-Trotter-Suzuki formula.

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The report presents a brief overview of the family of methods for numerical solution of a non-stationary Schrödinger equation, based on an application of the Lee-Trotter-Suzuki product formula to an approximation of the evolution operator. A way for optimizing high-order accuracy circuits is presented. The application of the Lee-Trotter-Suzuki method to solving some non-stationary problems is demonstrated.

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