

METHOD OF MULTIPLE INTERNAL
REFLECTIONS IN DESCRIPTION
OF TUNNELING EVOLUTION
THROUGH BARRIERS

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The method of multiple internal reflections for the non-stationary solution of the problems of tunneling of a particle through one-dimensional and spherically symmetric rectangular barriers is presented. For one-dimensional problem, the applicability of this method is proved, and its specific features are explored. Using this method for the spherically symmetric problem, the amplitudes of transmitted and reflected wave packets, times of tunneling and reflection in relation to the barrier are found. The effect of Hartman - Fletcher is considered.