

## Dynamics of DC-SQUID with nontrivial barriers under external radiation

We present the results of numerical study of the phase dynamics of the DC-SQUID with topologically trivial and nontrivial barriers. The current-voltage characteristics are calculated. The dependence of the return current and critical current on the magnitude of the magnetic field and on the ratio of current components ( $2\pi$ -periodic Cooper pairs and  $4\pi$ -periodic Majorana fermions) is found. The qualitative behavior of this dependence is explained. In addition, the dependence of the reverse current and the critical current on the parameters  $\beta L$  and  $\beta c$  was calculated.

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