

Spin nature of the energy gap in superconductors of the second kind

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This paper presents a model for determining the second critical field of superconductors, obtained on the basis of changes in the spin basis states of a system of two particles with spin $1/2$ in a magnetic field. The obtained critical field estimate is consistent with experimental data for superconducting alloys, some metallic compounds, nitrides and Laves phases, fullerides and other superconducting compounds.

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