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FEATURES OF SPIN-POLARIZED CURRENT INJECTION IN HETEROSTRUCTURES MoRe/Co2CrAl-I-Pb

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Abstract

We fabricated multilayer S1/F-I-S2 type tunnel heterostructures MoRe/Co2CrAl-I-Pb and studied their current-voltage characteristics at the 4.2 K. The study of tunnel current between Co2CrAl and Pb electrodes has shown that singlet Cooper pairs can be converted into triplet Cooper pairs. When the thickness of Co2CrAl spacer is 100 nm may be “shunting effect” of the spin-polarized current injection through the tunnel barrier. Spin-polarized tunnel current injection is possible when the thickness of Co2CrAl spacer is 200 nm.

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