

Abstract Submitted
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Energy Split in the Spin-Orbit Coupling Bose Polaron XINGZE QIU, WEI YI, Univ of Sci Tech of China, KEY LABORATORY OF QUANTUM INFORMATION, CAS TEAM — We first analytically solve the three-body physics, one impurity interacts respectively with two Bosons, which energy spectrum behaves the property of Efimov physics. When the two Bosons have spin-orbit coupling, we find that the energy level splitting. We also consider this effect in the many body physics, and the splitting is further obvious.

Xingze Qiu
Univ of Sci
Tech of China

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