

## Study of PbAu alloy on different substrates

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**Abstract :**

When the system have time-reversal symmetry and inversion symmetry, the energy band of the system is not allowed to split. When one of the symmetries is breaking, the energy band is allowed to split.

The model of PbAu alloy has a special configuration that induce inversion symmetry breaking then Rashba effect.

Even under the same substrate, Different growth methods will also produce different rotation angles of alloy with substrate.

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