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Tilted-Lorentz symmetry

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Abstract

Dirac cone can be tilted in condensed matter setting. As a result of tilt, the Lorentz symmetry is reduced to what we call tilted-Lorentz symmetry. In this paper, we derive the tilted-Lorentz transformations that leave a world with tilted Dirac cone invariant.

Keywords: tilted Lorentz group, spacetime in solid state physics

For full article, refer to the Persian section