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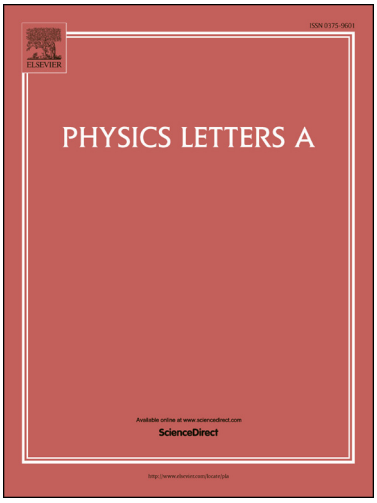

Influences of strains on the formation of the quasi-Dirac cone and the Landau levels in black phosphorus

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Highlights

- A continuously tunable tight-binding Hamiltonian under in-plane and out-of-plane strains.
- The quasi-Dirac cone can be formed by tuning the strains.
- Different Landau level patterns can appear in the strained black phosphorus.
- An extension of strain effects from the monolayer to multilayer or bulk black phosphorus.