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Clean Os(0001) electronic surface states: a first-principle fully relativistic investigation

Andrea Urru, Andrea Dal Corso

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Highlights

- Fully relativistic PAW surface bands structure of Os(0001).
- Identification of surface states and resonances.
- Identification of a Rashba split surface state with inverted dispersion as in Ir(111).
- Discussion of the spin-polarization of the surface states.
- Detailed comparison with the surface states of Au(111), Pt(111), and Ir(111).

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