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A theoretical analysis of the $\text{CdS}/\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10}$ interface

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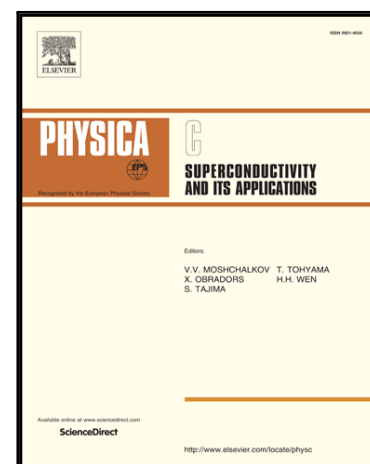
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HIGHLIGHTS

- We present for the first time a theoretical study of the CdS/Bi₂Sr₂Ca₂Cu₃O₁₀(Bi2223) interface using the modified Becke–Johnson (mBJ) potential within the framework of the Density Functional Theory.
- We found that the semiconductor side is the more affected in the interface. The calculations show a slightly metallic character in Cd plane.

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