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Corrigendum: Electronic structure of the substitutional vacancy in graphene: density-functional and Green's function studies

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In the original paper, figure 12(b) was incorrect and the caption of figure 12 was also erroneous. The correct figure and caption are shown below.

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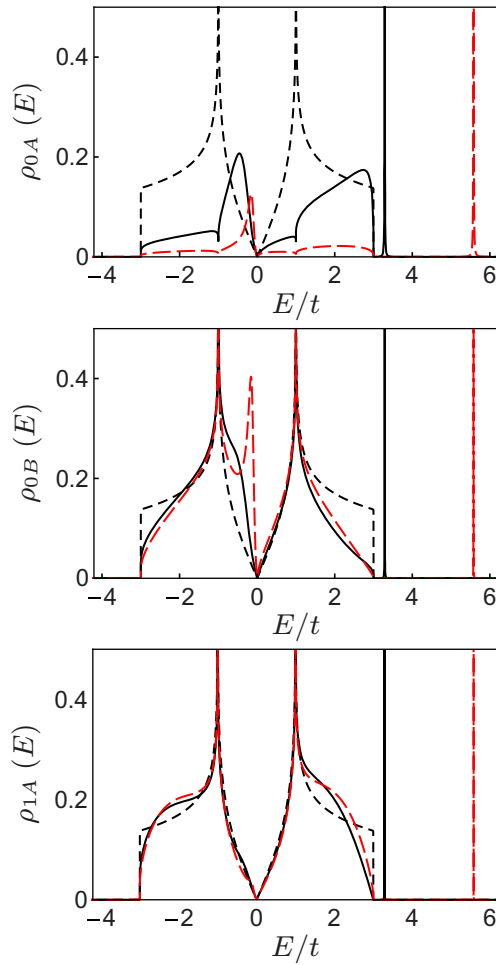


Figure 12. LDOS at the impurity site ρ_{0A} (top), the NN site ρ_{0B} (middle) and the next-NN site ρ_{1A} (bottom) obtained from equations (13) and (14) for different strengths of the impurity potential $U_0/t = 0, 2$ and 5 , denoted by black dashed, black solid and red dashed lines, respectively. As $U_0 \rightarrow \infty$, the top LDOS goes to zero (except for the bound state beyond the top of the band whose energy goes to ∞), and the zero-mode state lives only on the B sublattice, as indicated from the middle and the bottom panels. The prominent zero-mode peak in the middle panel for $U_0/t = 5$ will develop into a δ -function peak at $E = 0$ as the impurity potential $U_0 \rightarrow \infty$.