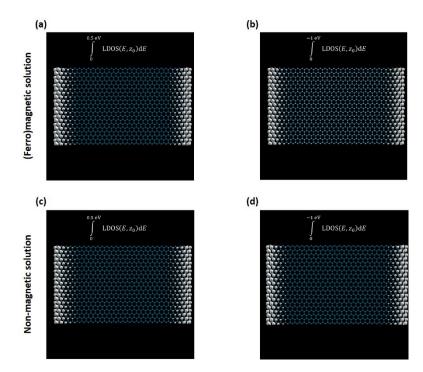
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Supplementary Figure 1. Spatial distribution of (integrated) density of states for graphene ribbons with \mathbf{a}_{21} type of the armchair edges. (a,b) Distribution of local density of states for ferromagnetic state; the integration is performed for states between Fermi level and 0.5 eV (a) and between Fermi level and -1.0 eV (b). (c,d) Same for the non-magnetic state.