



Supplementary Figure 1. Spatial distribution of (integrated) density of states for graphene ribbons with 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.