



FIG. 3. Energy band structure of ZnO and ZnO/SiGe heterostructure. The energy scale is in eV. The momentum scale is in units of π/a . For each curve the zero of the energy scale was adjusted such that the minimum of the curve gives the enthalpy of formation. ΔE_c denotes the substrate strain, the shaded area denotes the negative enthalpy of formation of E_p ZnO/SiGe. Energy cutoff of 1 eV was used.