Movie 1 (Duration ~12 seconds). Morphing between RT:DNA and nevirapine-ternary structures illustrates the structural changes in the polymerase domain of HIV-1 RT upon nevirapine (green space filling) binding. The primer grip on β12–β13–β14 (magenta) sheet is displaced by ~4 Å, fingers and thumb subdomains are repositioned, and the nucleic acid is shifted out of the polymerase active site. The nonnucleoside-binding pocket residues Y181, Y188, and W229 (cyan) are rearranged/repositioned upon nevirapine binding. The polymerase active-side residue D186 is rearranged to accommodate the primer terminal 3’-azido group (blue) in RT:DNA and AZTTP-ternary structures.