

Supplementary Information for “Trapping and manipulating skyrmions in two-dimensional films by surface acoustic waves”

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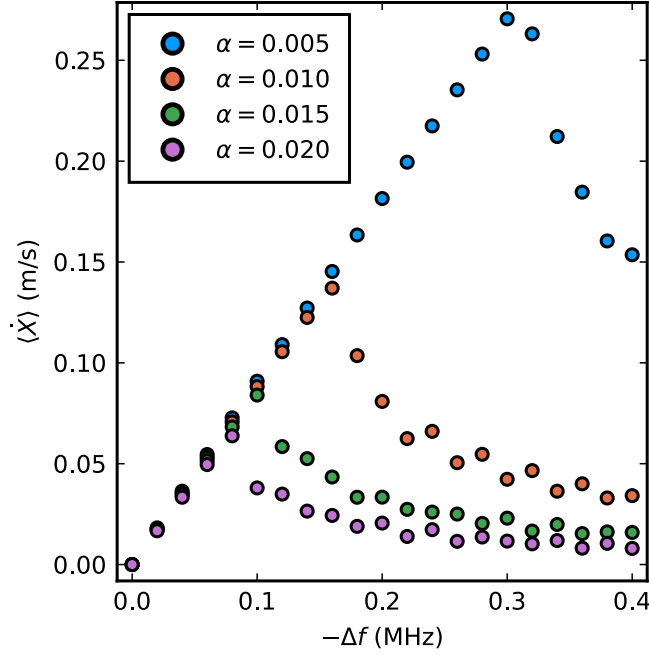


FIG. S1. Averaged velocity of skyrmion along the x direction $\langle \dot{X} \rangle$ as a function of the amplitude of detuning Δf_x with different Gilbert damping constants α . Other parameters and calculation conditions are the same as those shown in Fig. 4 in the main text.

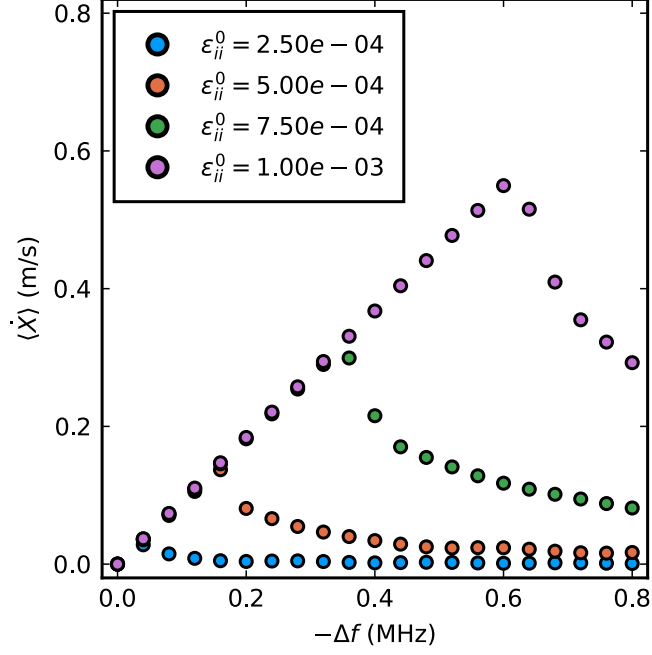


FIG. S2. Averaged velocity of skyrmion along the x direction $\langle \dot{X} \rangle$ as a function of the amplitude of detuning Δf_x with different magnitudes of strain ϵ_{xx}^0 . Other parameters and calculation conditions are the same as those shown in Fig. 4 in the main text.

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