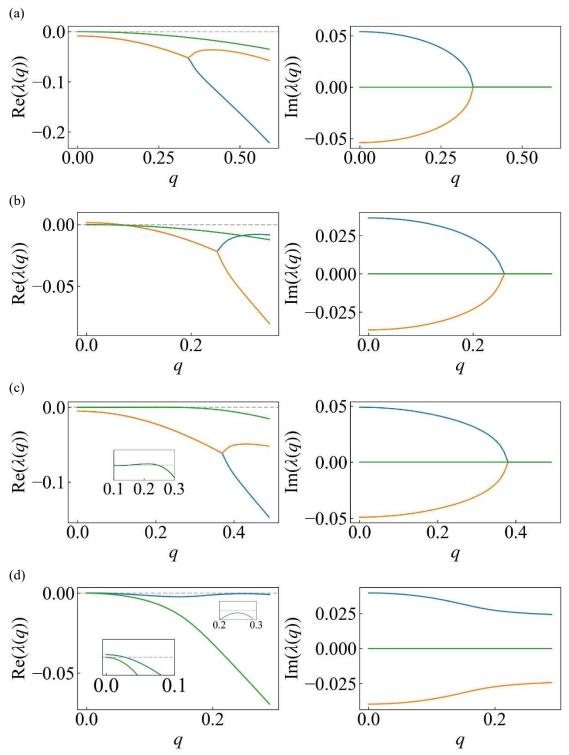
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Supplementary Information for

Nonlinear Chemical Reaction Induced Abnormal Pattern Formation of Chemotactic Particles

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Supplementary Figure 1 Real and imaginary part of the dispersion relation λ . Parameters are $\alpha_u=0.0, k_u=-0.01$ (a) $\alpha_u=0.0, k_u=-0.0175$ (b) $\alpha_u=5.0, k_u=-0.0071$ (c) $\alpha_u=-5.0, k_u=-0.0175$ (d). Other parameters are the same as in the main article.