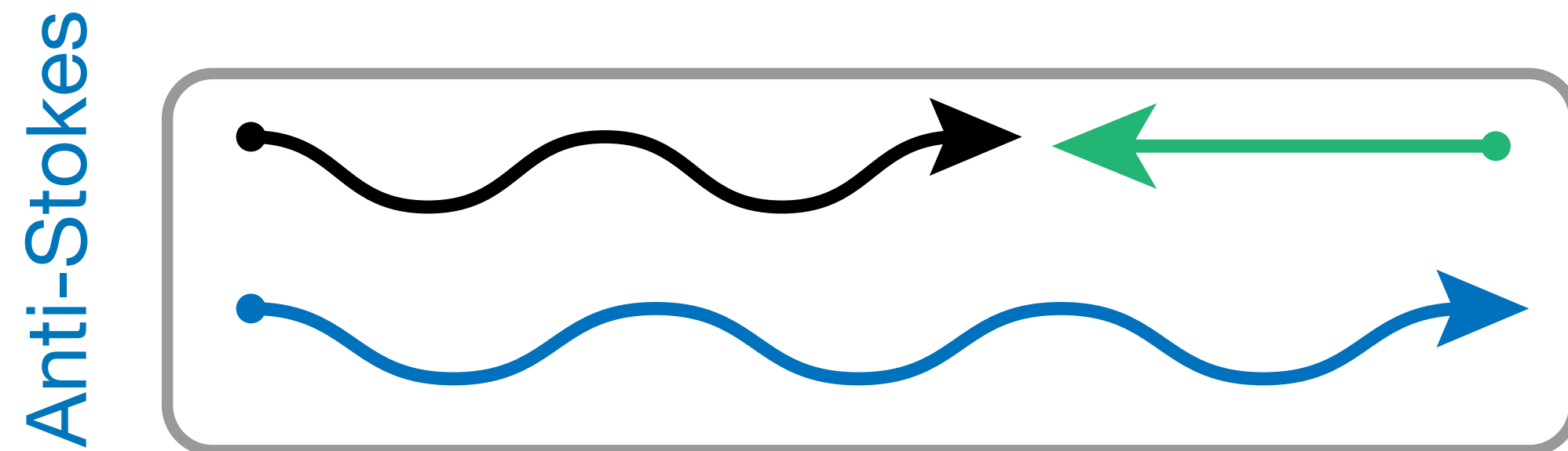


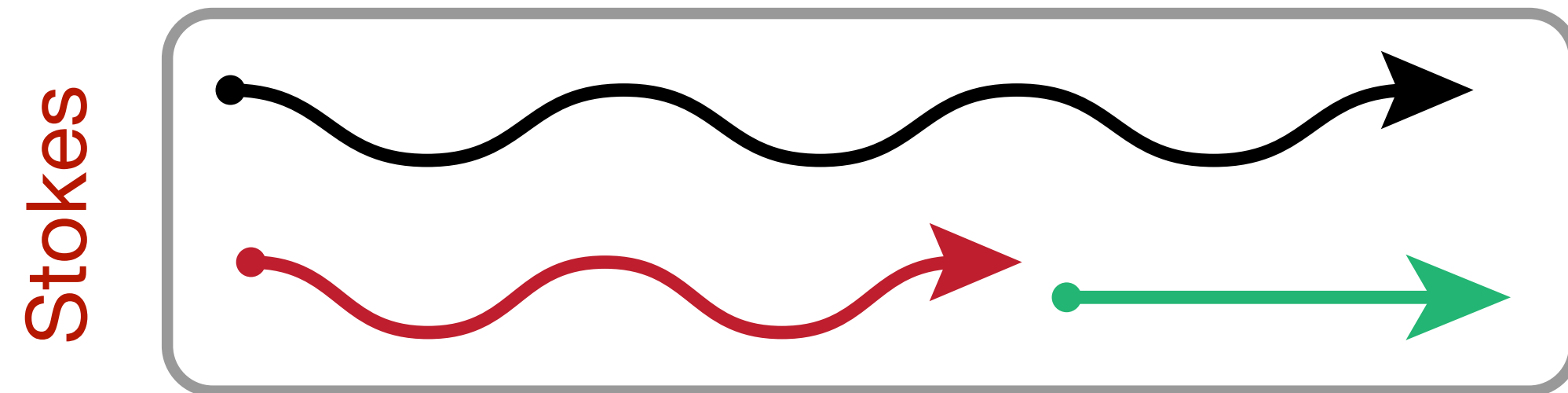


Phase-matching: inter-modal FW

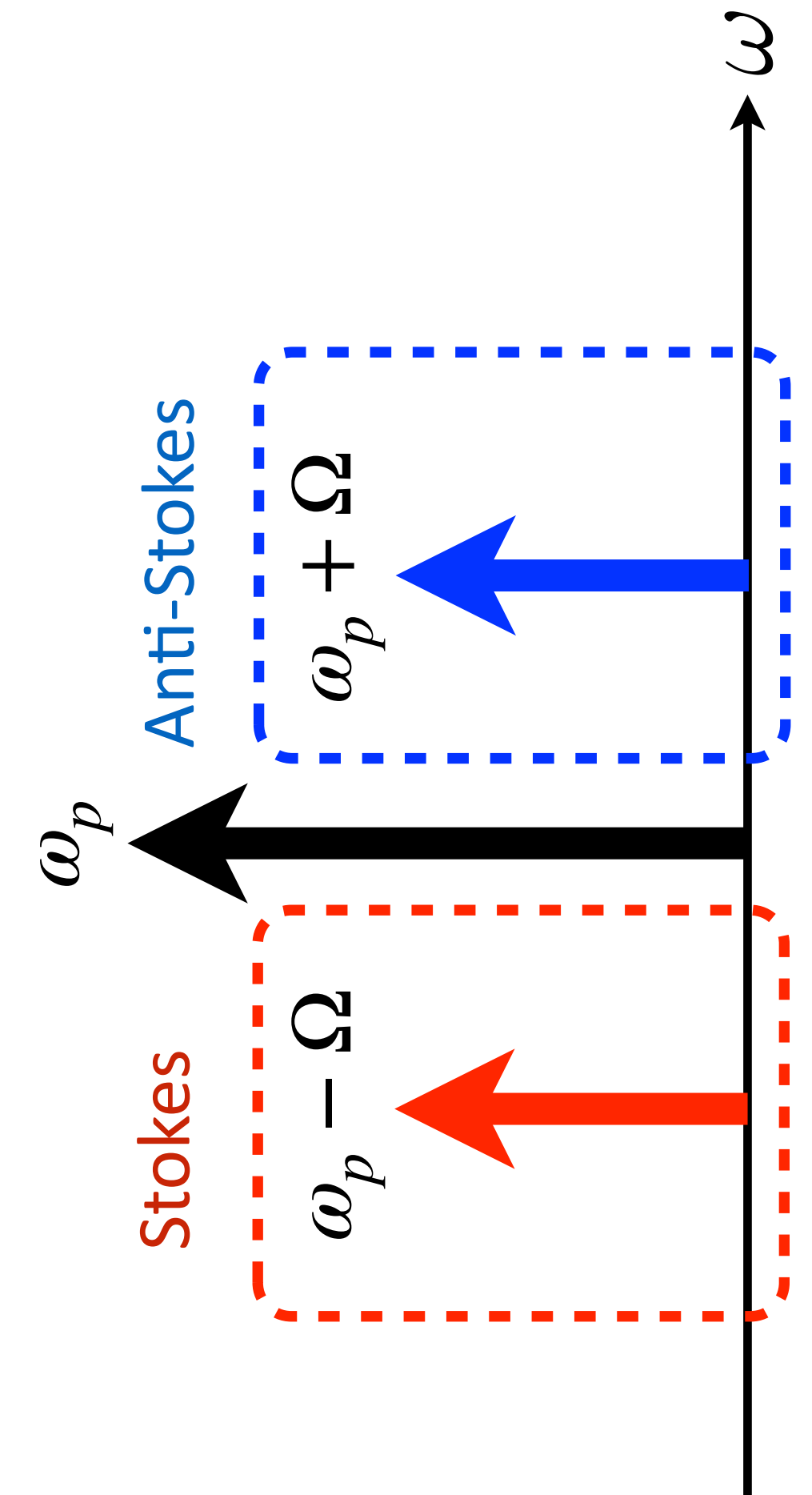
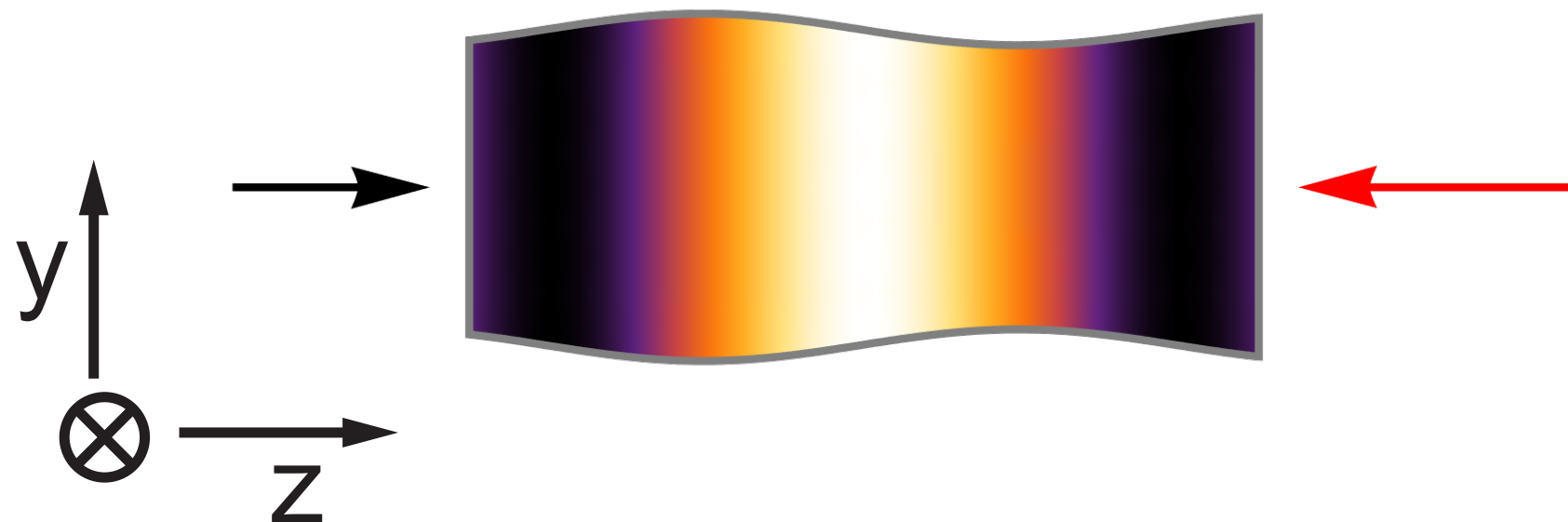
Forward Scattering (intermodal)



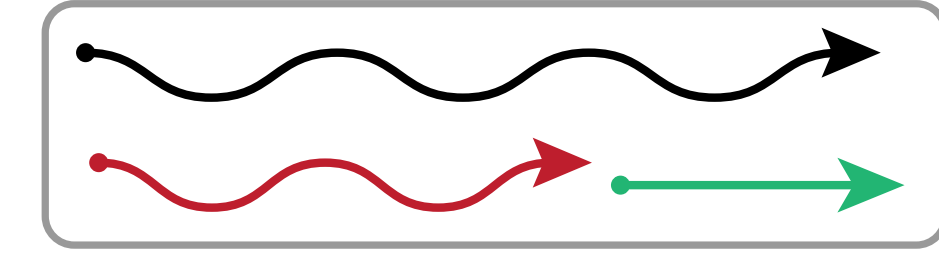
$$q_{aS} = (k_p - k_{aS})$$



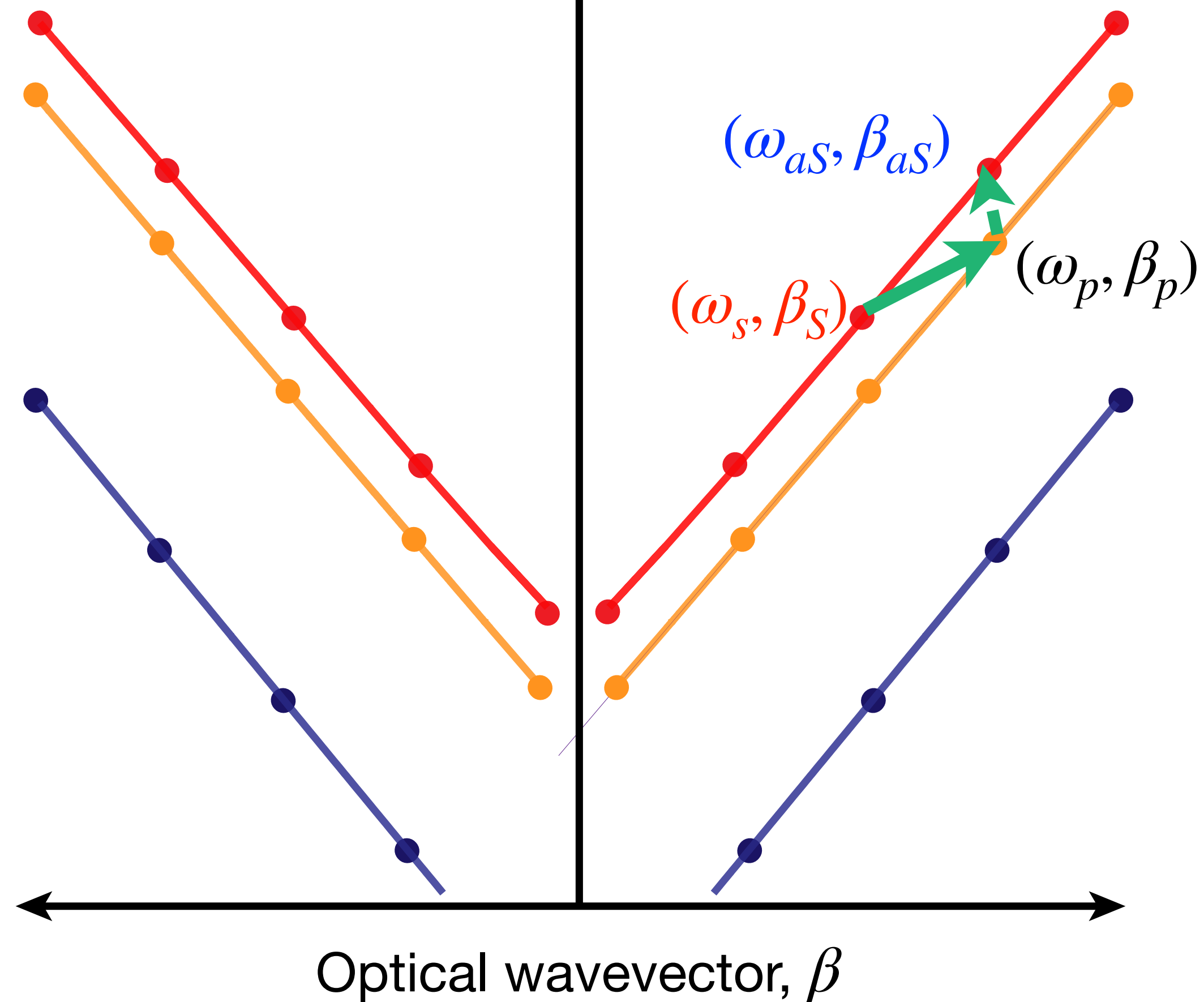
$$q_S = (k_p - k_S)$$



Phase-matching: inter-modal FW



Optical frequency, ω



$$q_S = + (|k_p| - |k_S|) \neq 0$$

$$\Omega_S \approx \frac{v_{ac}}{c} \omega_p (n_{eff}^{(p)} - n_{eff}^{(s)})$$

Mech. frequency, Ω

