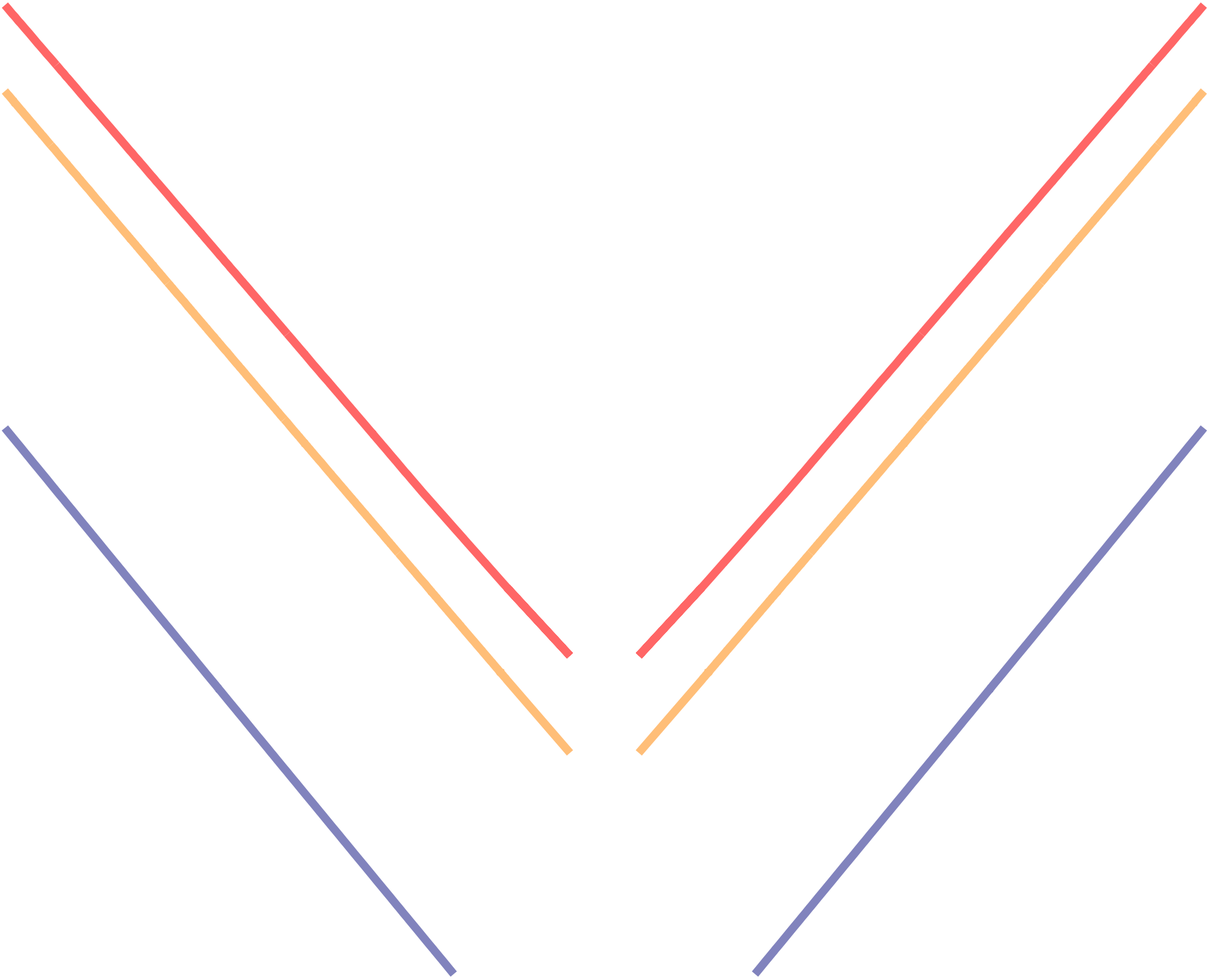
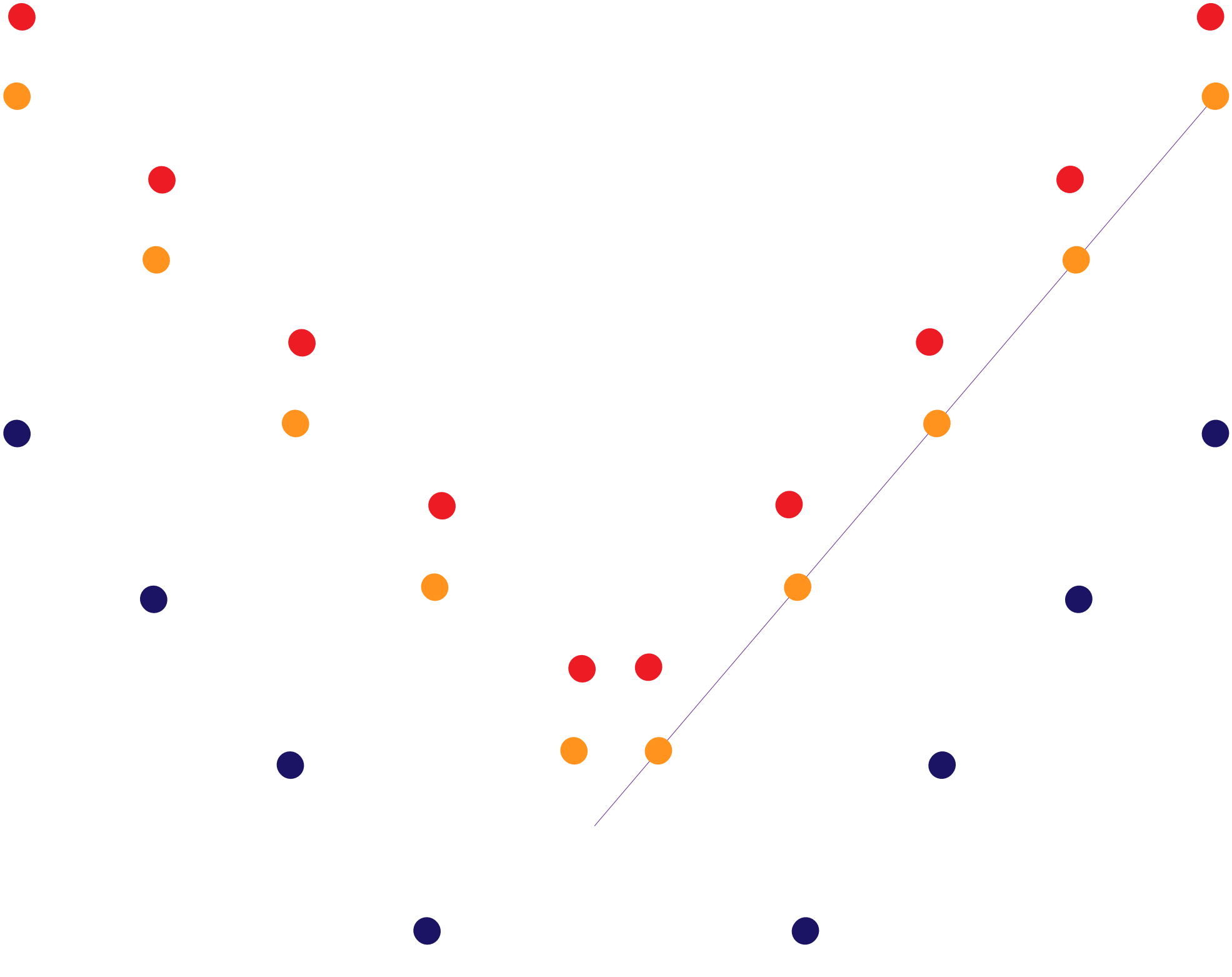
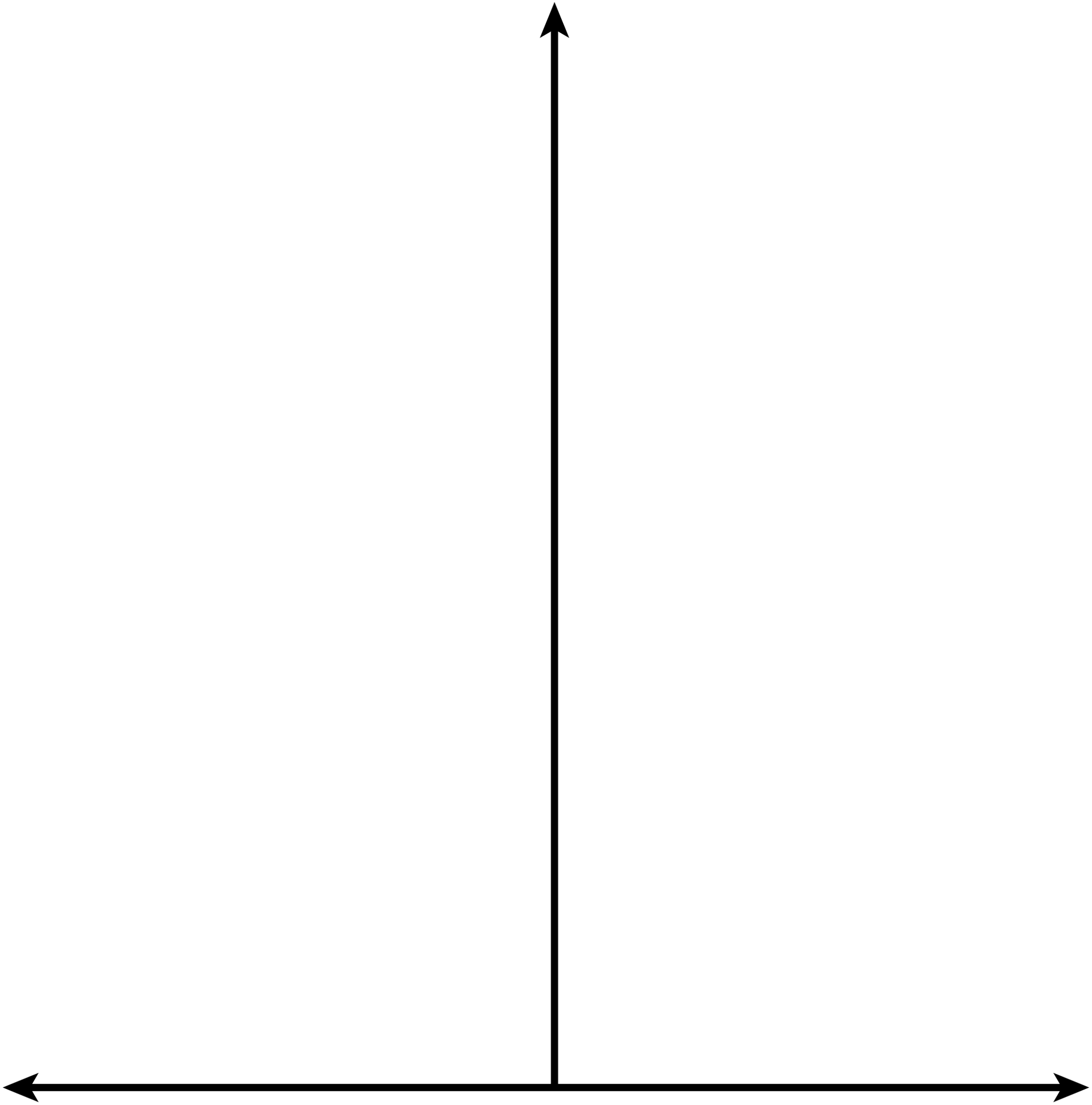
Phase-matching: intra-modal BW

19

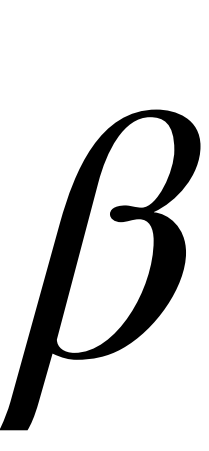
Wombat 2022, Erlangen, June 14th 2022. Gustavo Wiederhecker.







Optical wavevector,

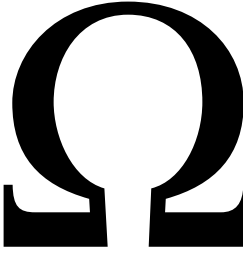


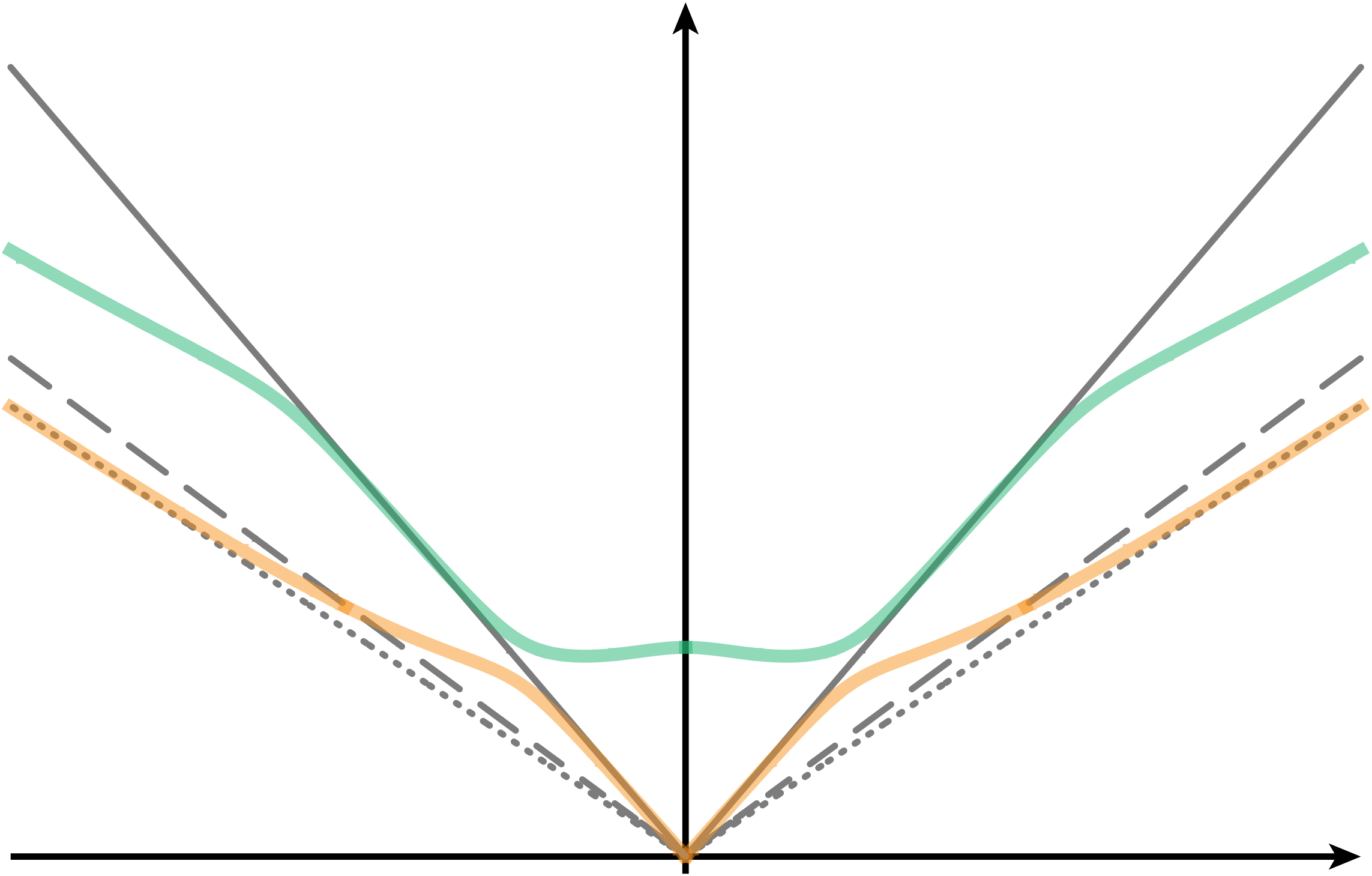
Optical frequency,

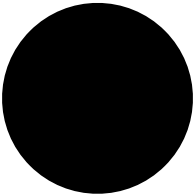
(ω_p, β_p)

Mechanical wavevector,

Mech. frequency,

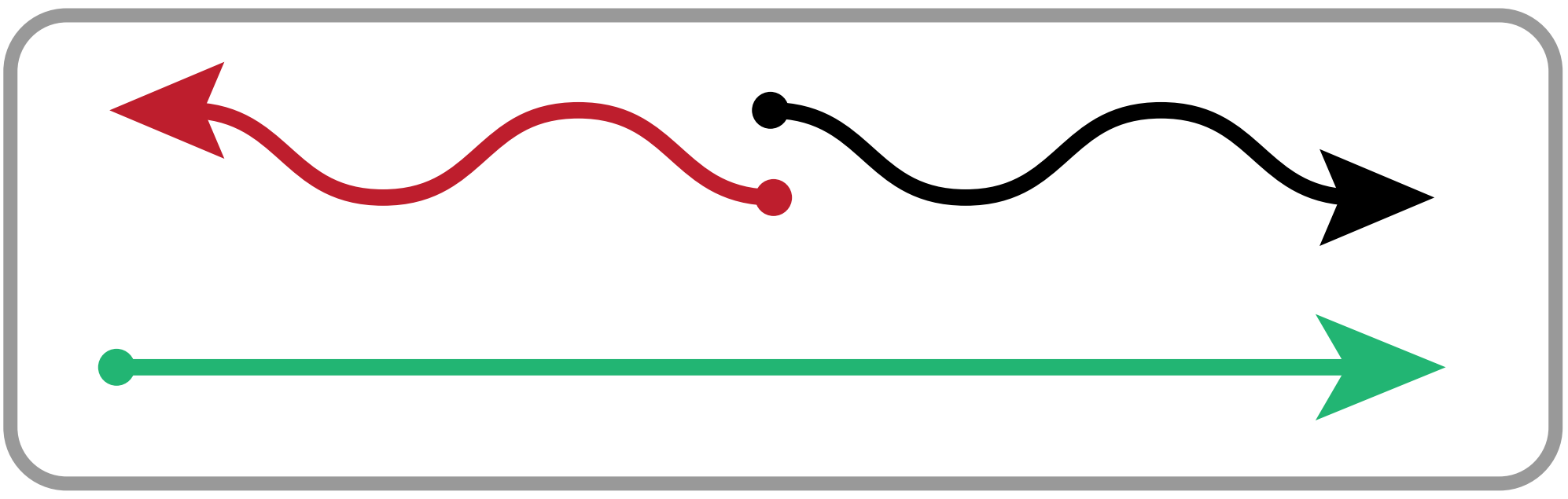






$$q_S = +(|k_S| + |k_p|) \approx 2|k_p|$$

$$q_S(\Omega_S) \approx 2\frac{\omega_p}{c} n_{eff}$$



20