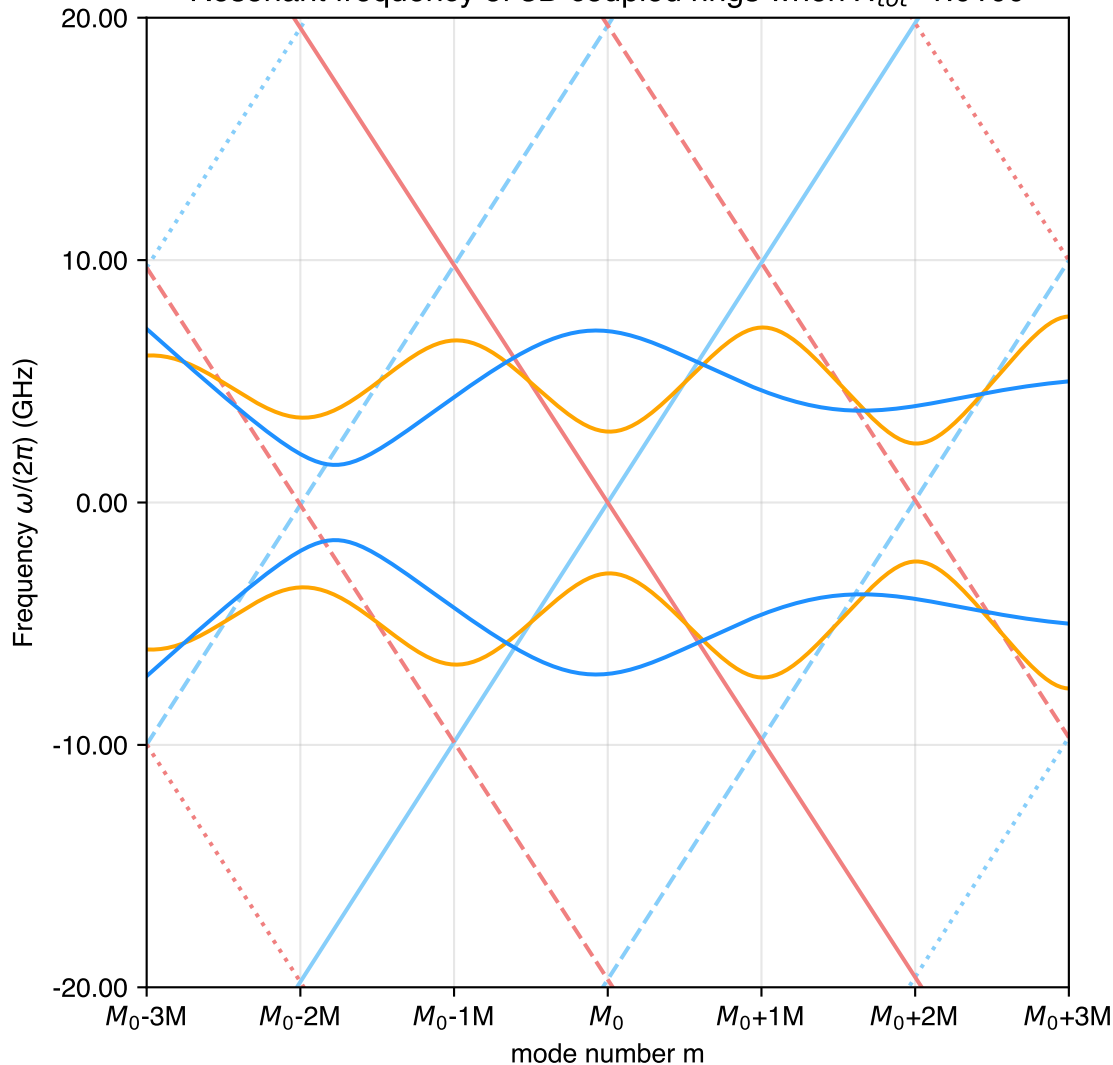


Resonant frequency of 3D coupled rings when $R_{tot}=1.0100$



- ResonatorA $\omega = \omega_0 + (D_{1,A} - D_{1,ave})(m - M_0)$
- - - ResonatorA $\omega = \omega_0 + (D_{1,A} - D_{1,ave})(m - M_0) \pm 1D_{1,ave}$
- ... ResonatorA $\omega = \omega_0 + (D_{1,A} - D_{1,ave})(m - M_0) \pm 2D_{1,ave}$
- ResonatorB $\omega = \omega_0 + (D_{1,B} - D_{1,ave})(m - M_0)$
- - - ResonatorB $\omega = \omega_0 + (D_{1,B} - D_{1,ave})(m - M_0) \pm 1D_{1,ave}$
- ... ResonatorB $\omega = \omega_0 + (D_{1,B} - D_{1,ave})(m - M_0) \pm 2D_{1,ave}$
- 2D parallel structure
- 3D offset structure

$R_{tot} = L_B/L_A = 1.0100$
 $D_{1,ave}/(2\pi) = 19.68 \text{ GHz}$
 $M = 100.5$
 3D offset structure:
 $g_{co} = 701.86 \text{ m}^{-1}$
 $\delta L_s = 0.9974 \text{ } \mu\text{m}$
 2D parallel structure:
 $g_{co}L_{co} = 0.93$