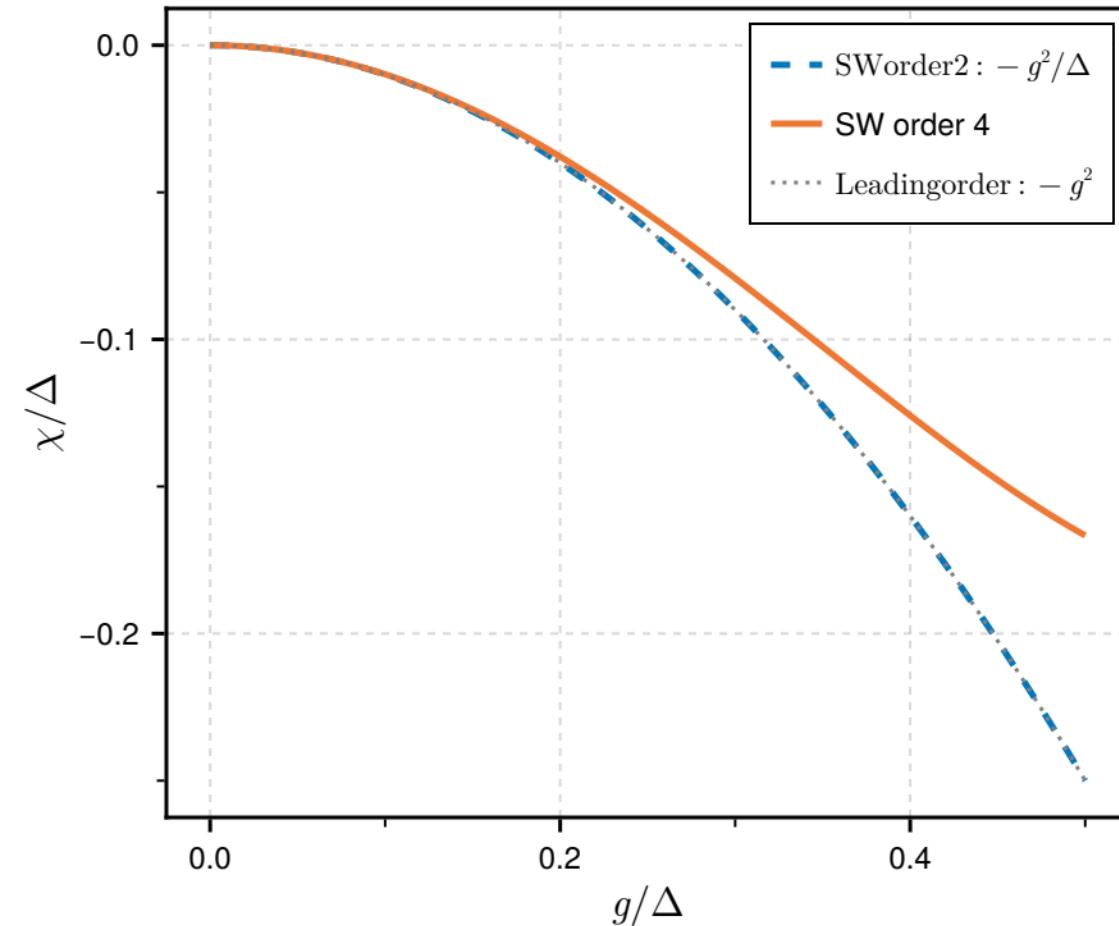


(a) Dispersive shift



(b) Kerrnonlinearity $K(a^\dagger a)^2$

