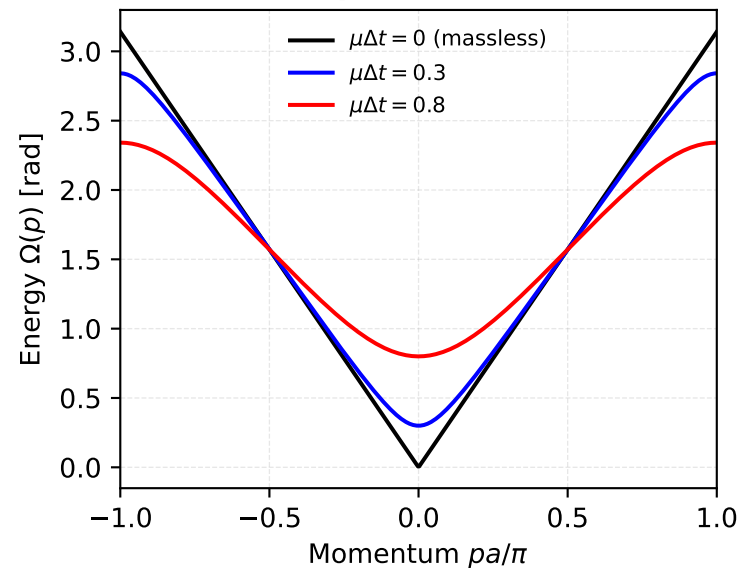
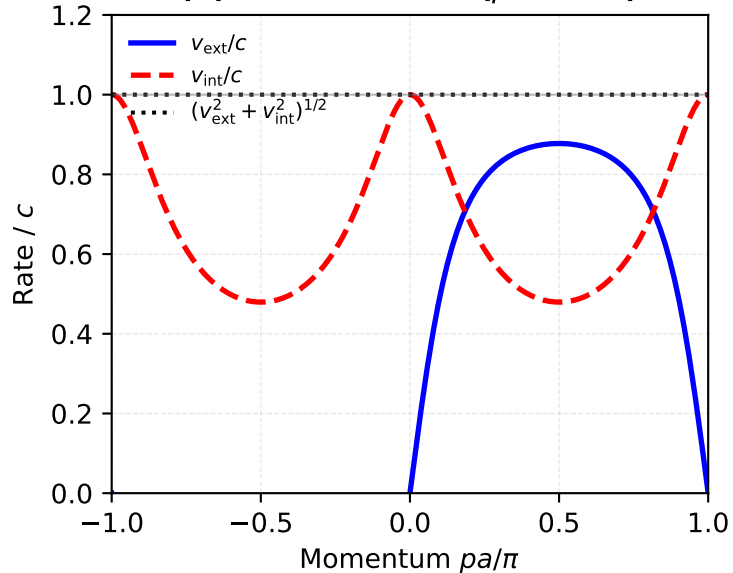


(a) Dispersion Relation**(b) Rate Partition ($\mu\Delta t = 0.5$)****(c) Entanglement Bound ($\propto v_{\text{int}}^2$)**