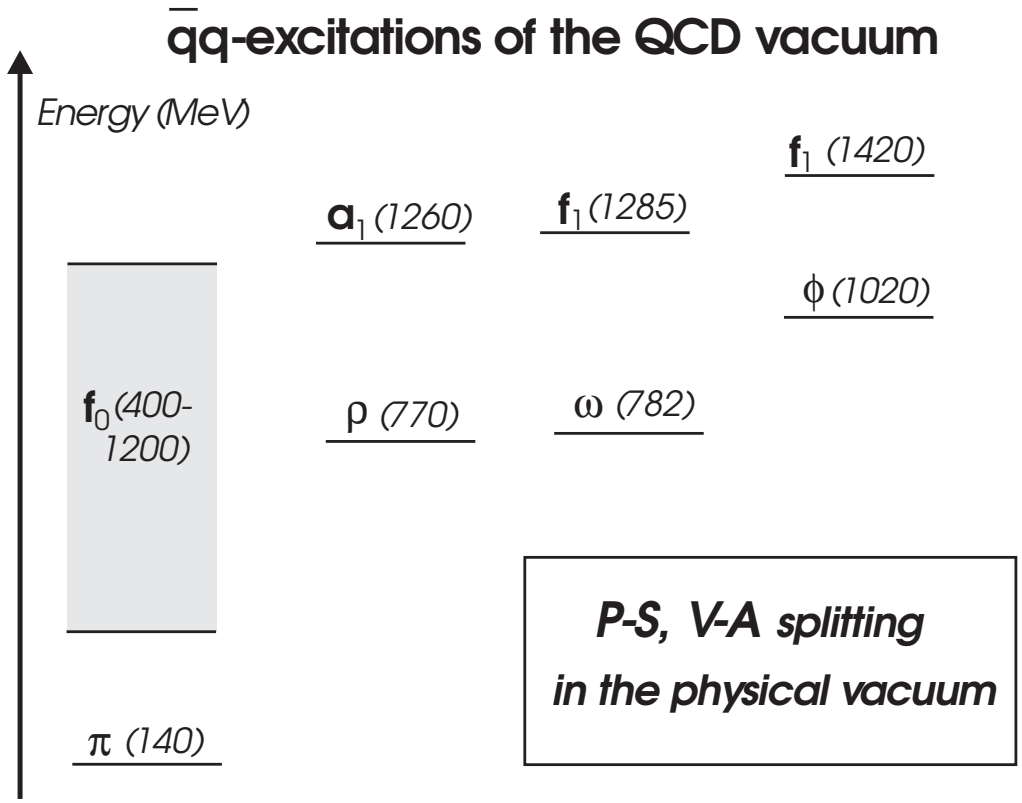
# Chiral Symmetry (I)

In the limit $m_q \to 0$ QCD has an exact chiral symmetry in which left-and right-handed quarks decouple.

this symmetry is however spontaneously broken

$$\langle 0|\bar{q}q|0\rangle \neq 0$$

- Goldstone bosons
- no parity dublets