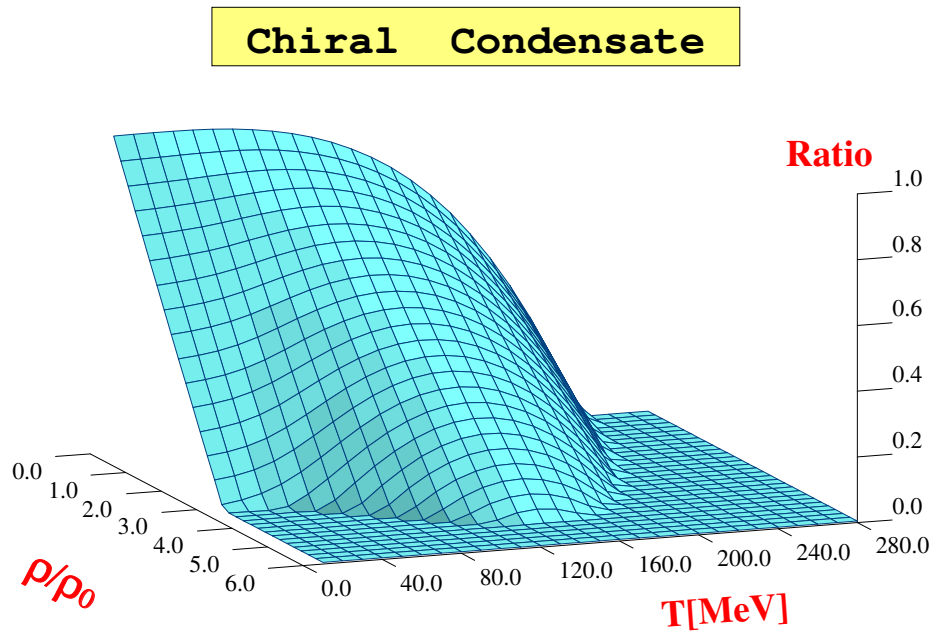
Chiral Restoration

in-medium Weinberg sum rule: $(\vec{q}=0)$

$$\int \frac{d\omega}{\omega}(\rho^V(\omega)-\rho^A(\omega)) = F_\pi^{2*} \propto \langle\bar{q}q\rangle^*$$

chiral condensate: (low temp., small density)

$$\frac{\langle\bar{q}q\rangle^*}{\langle\bar{q}q\rangle_0} \sim 1 - \frac{T^2}{8F_\pi^2} - 0.3\frac{\rho}{\rho_0} + \cdots$$