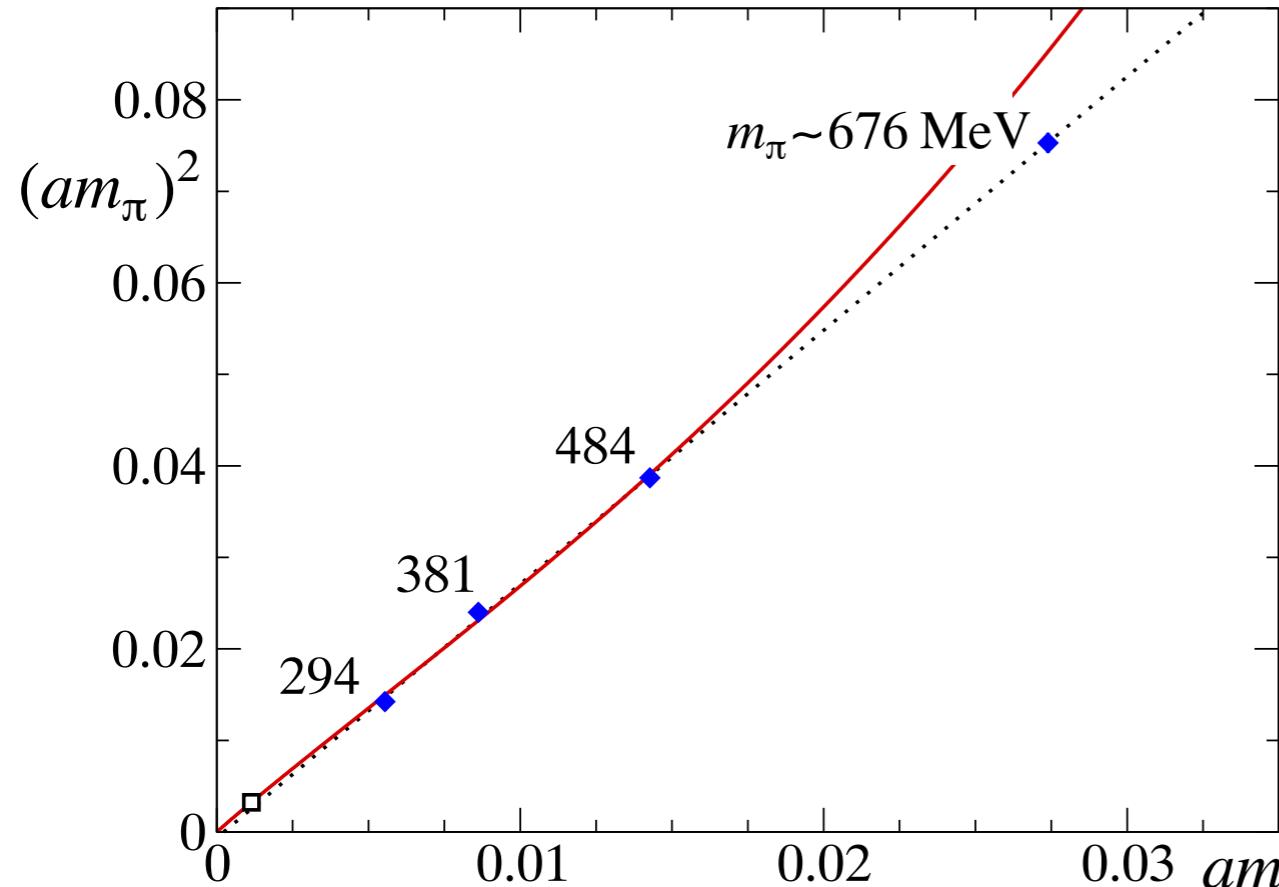


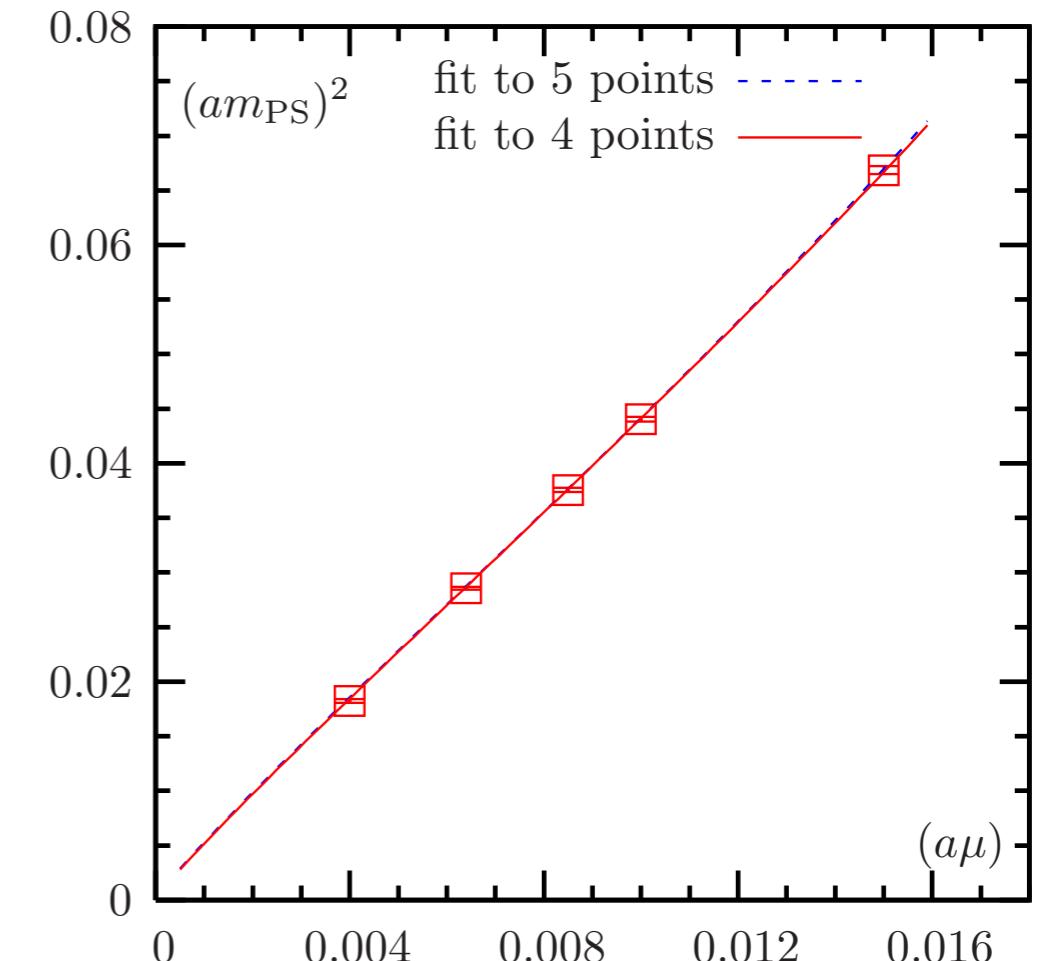
The plots that follow are from H. Leutwyler's lecture at the “School on flavor physics”, Benasque, 2008.

M_π^2 as a function of m_q



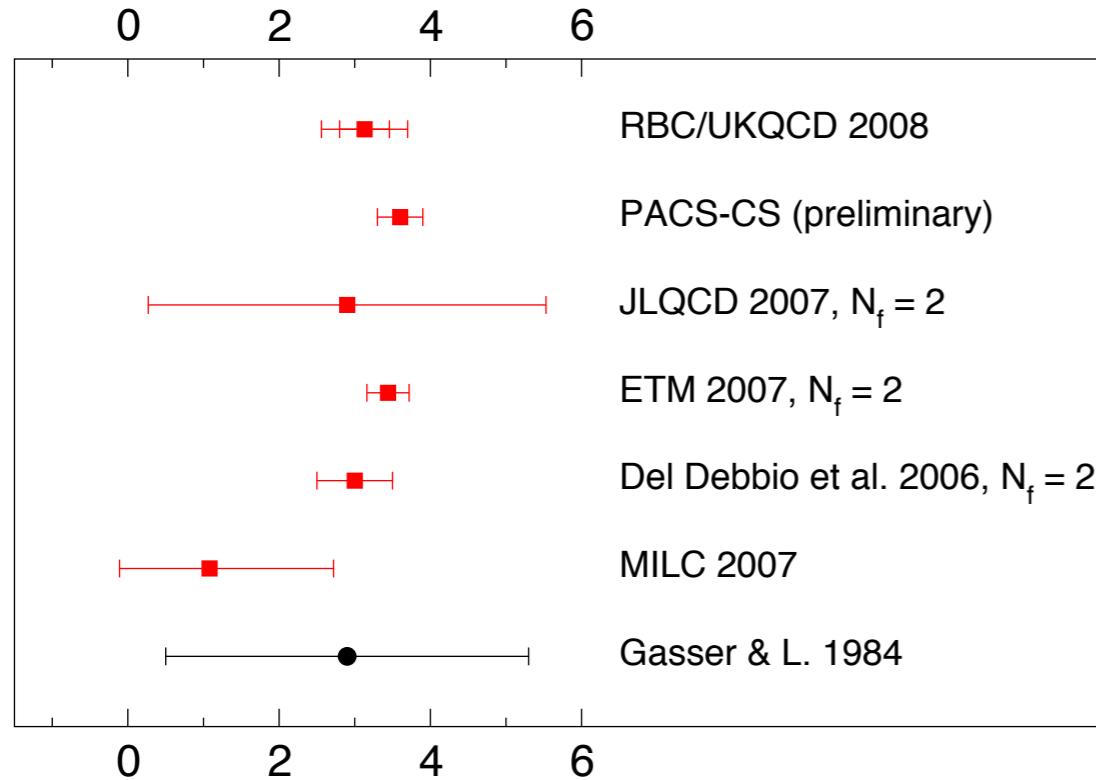
Lüscher, Lattice conference 2005

ETM collaboration, hep-lat/0701012

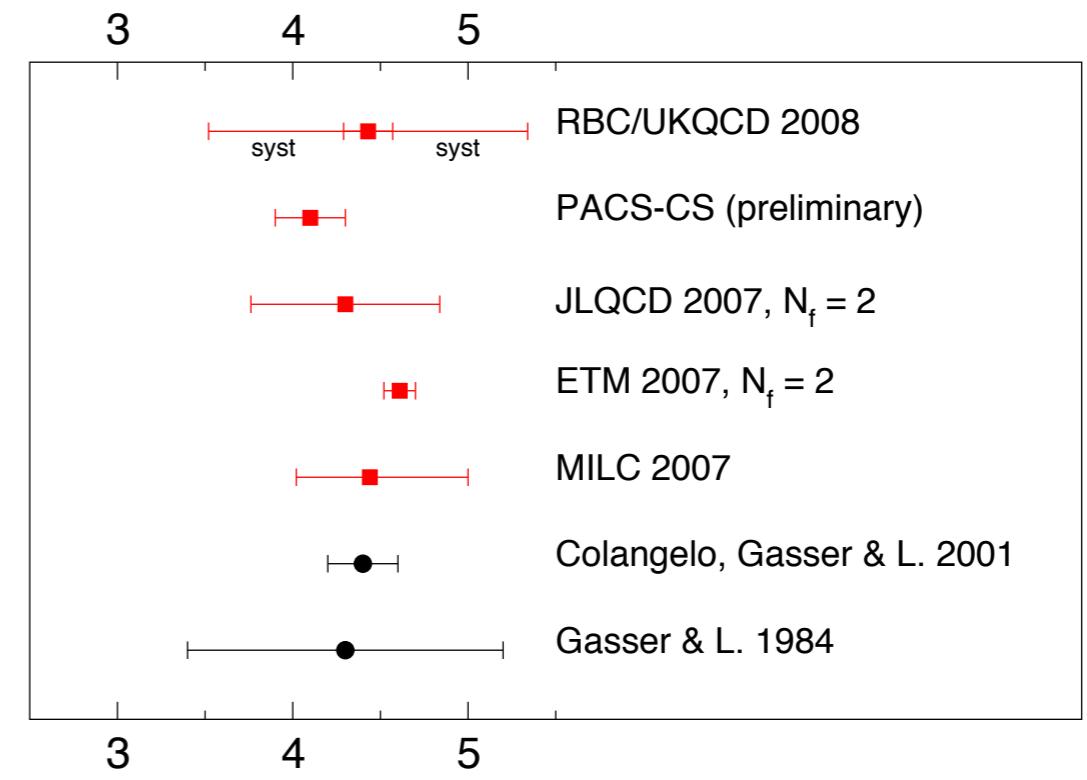


- Simulations with two light, dynamical quarks.

Low energy constant ℓ_3 and ℓ_4

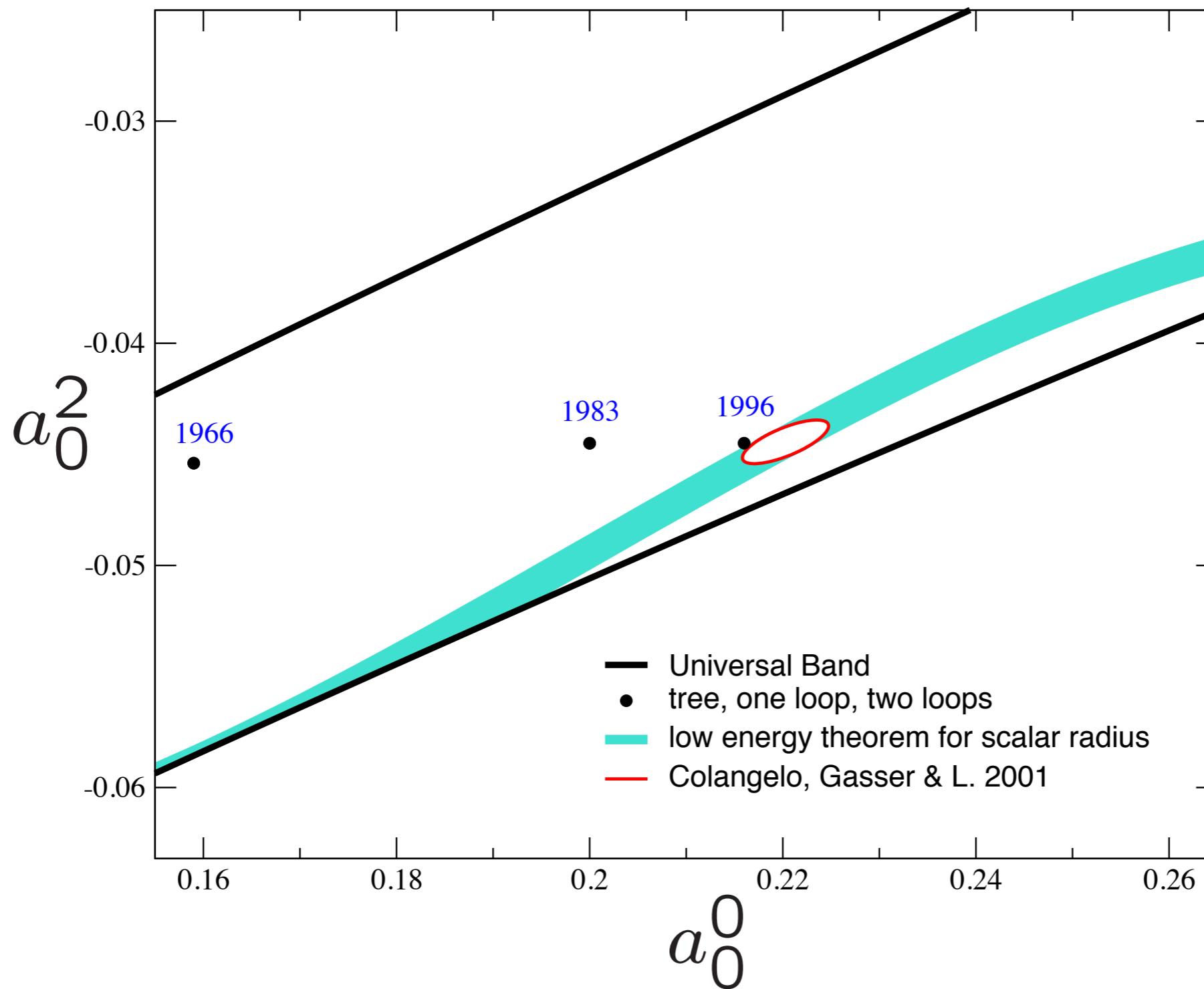


$$\bar{\ell}_3 \equiv \ln \frac{\Lambda_3^2}{M_\pi^2}$$

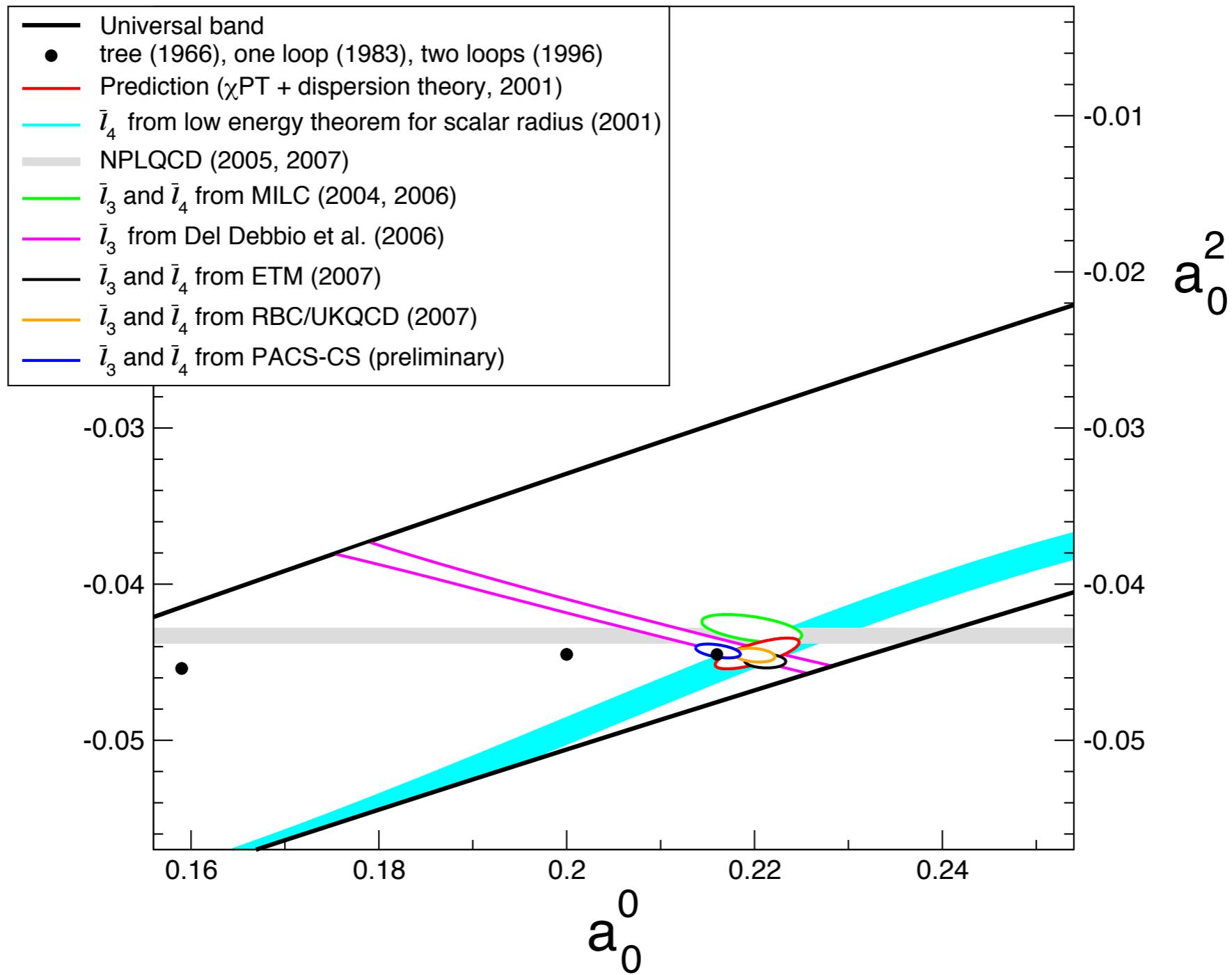


$$\bar{\ell}_4 = \ln \frac{\Lambda_4^2}{M_\pi^2}$$

Scattering lengths a_0^0 a_0^2 from CHPT



a_0^0 a_0^2 with ℓ_3 and ℓ_4 from lattice



a_0^0 a_0^2 from experiment

