

Baryon-Baryon Scattering in $N_f = 2 + 1$ Lattice QCD

Saturday, 10 October 2026 14:00 (20)

We present a preliminary lattice QCD study of baryon-baryon scattering using $N_f = 2 + 1$ CLQCD configurations. We focus primarily on the strangeness $S = -2$ $\Lambda\Lambda$ and ΞN systems to explore the properties of H -dibaryon near threshold using the Lüscher finite-volume quantization condition. Furthermore, we extend our study to baryon-baryon systems involving the Ω baryon. We report recent progress on the interaction in these sectors and discuss the implications of different numerical extraction techniques.

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Session Classification : Section 7