

# Low-lying baryon resonances from lattice QCD

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Recent results studying the masses and widths of low-lying baryon resonances in lattice QCD are presented. The  $s$ -wave scattering lengths with both total isospins  $I = 1/2$  and  $I = 3/2$  are inferred from the finite-volume spectrum below the inelastic threshold together with the  $I = 3/2$   $p$ -wave containing the  $\Delta(1232)$  resonance. A lattice QCD computation employing a combined basis of three-quark and meson-baryon interpolating operators with definite momentum to determine the coupled channel  $\Sigma\pi - N\bar{K}$  scattering amplitude in the  $\Lambda(1405)$  region is also presented. Our results support the picture of a two-pole structure suggested by theoretical approaches based on  $SU(3)$  chiral symmetry and unitarity.

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