

## $\Lambda(1405)$ with one pole

*Thursday, June 13, 2019 3:00 PM (30 minutes)*

Low-energy data on the three charge states in  $\gamma p \rightarrow K^+(\Sigma\pi)$  from CLAS at JLab, on  $K^-p \rightarrow \pi^0\pi^0\Lambda$  and  $\pi^0\pi^0\Sigma$  from the Crystal Ball at BNL, bubble chamber data on  $K^-p \rightarrow \pi^-\pi^+\pi^\pm\Sigma^\mp$ , low-energy  $K^-p$  differential cross sections for elastic and charge exchange scattering, total cross sections on  $K^-$  induced reactions, and data on the  $K^-p$  atom are fitted with the BnGa partial-wave-analysis program. We find that the  $\Lambda(1405)$  region can be fitted well with just one isoscalar spin-1/2 negative-parity pole, the  $\Lambda(1405)$ , and background contributions.

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