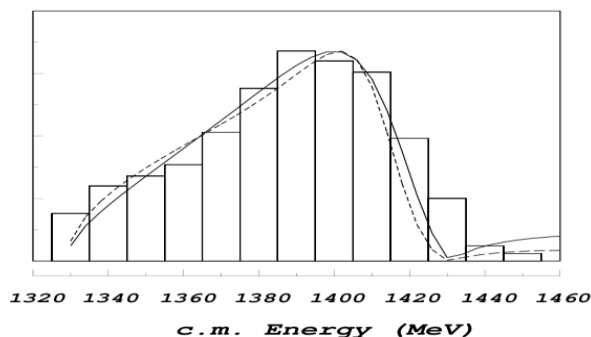




# COLLOQUIUM

Lambda (1405) Resonance



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## Baryon Resonances: 3 quarks or 5?

### Abstract

When mesons interact with nucleons, peaks in the scattering cross section can occur. These peaks are called baryon resonances. Baryon resonances can occur as an excited three quark state or as a "quasi-bound" baryon (three quarks) plus a meson (two quarks). We will consider resonances that are produced when pions and kaons scatter off of protons and neutrons with angular momentum  $l=0$ . The focus of the talk will be the role that chiral symmetry plays in understanding the nature of these  $l=0$  baryon resonances. Refreshments will be served at 3pm.

3-4 p.m., Friday, March 23<sup>rd</sup>  
McLane Hall 162  
All welcome!