

Ronan McNulty - Understanding QCD: searching for the glueball and the odderon.

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The strong force is the least precisely tested constituent of the Standard Model due to our inability to make precise predictions at low energies. Colour-charged objects can not be isolated and while the quark model describes most observed hadrons, the expected binding of gluons to form real or virtual states is less clearly understood. Recent and prospective results from the LHC that illuminate this problem will be discussed.