

XIIIth Quark Confinement and the Hadron Spectrum



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The Primakoff Experimental Program at JLab

Thursday, August 2, 2018 5:50 PM (30 minutes)

The light pseudoscalar meson decays provide a unique laboratory to test fundamental QCD symmetries at low energies. A comprehensive Primakoff experimental program at Jefferson Laboratory (JLab) is aimed at gathering high precision measurements of the two-photon decay widths and the transition form factors (at low four-momentum transfer squares) of π^0 , η and η' via the Primakoff effect. The results of these measurements will offer stringent tests on the chiral anomaly and provide sensitive probes for the origin and dynamics of chiral symmetry breaking. The status of these experimental activities and their physics impacts will be discussed.

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