## BChPT x 1/Nc in SU(3): baryon masses and current

Monday 25 September 2017 17:30 (20 minutes)

The framework of BChPT combined with the 1/Nc expansion is implemented for three flavors and applied to the octet and decuplet baryon masses and currents. Results to one-loop in the chiral expansion, and subleading order in the 1/Nc expansion will be presented. Particular emphasis will be made on the improvements resulting from the constraints implied by consistency with the 1/Nc expansion. Several new parameter independent relations that result at the order of the analysis will be discussed. Connections to lattice QCD will be made.

**Authors:** Prof. GOITY, Jose L. (Hampton University and Jefferson Lab); Dr FERNANDO, Ishara P. (Hampton University)

Presenter: Prof. GOITY, Jose L. (Hampton University and Jefferson Lab)

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