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Construction and Analysis of Two Baryon Correlation functions

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The signal to noise ratio of baryon two point functions grows exponentially with Euclidean time hindering reliable extraction of the energy levels of the system. The problem becomes more acute in the case of two or more baryon correlation functions. For this reason special care is needed in both constructing, and analyzing two point functions of multi-baryon systems. In this talk I will discuss various approaches for constructing two point functions for two baryon systems as well as new methods for extracting the energy levels associated with these correlation functions.

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talk

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