Contribution ID: **256**   Type: **not specified**

Improved method for computing nucleon strangeness

Tuesday, 15 June 2010 17:20 (20 minutes)

The strange quark content of the nucleon, <N|ss|N>, as well as other matrix elements, can be calculated on the lattice by examining correlations between the nucleon propagator and the quark condensate. The largest contribution to statistical error comes from coincidental correlations between the propagator and fluctuations in the condensate far from the propagation region that contribute only noise. We will present a technique for considering only the condensate near the propagation region, significantly reducing the statistical error.

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talk

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Session Classification: Parallel 26: Hadronic structure and interactions

Track Classification: Hadronic structure and interactions