



Contribution ID: 122

Type: Poster

Ground state charmed meson and baryon spectra for $N_f = 2 + 1 + 1$

Tuesday, July 26, 2016 7:00 PM (1 hour)

We present a study of the charmed meson and baryon ground state spectra on the electrically neutral subset of the BMW $N_f = 2 + 1 + 1$ gauge configurations that utilise the 3-HEX smeared clover action. The analysis focuses on a systematic evaluation of the hyperfine mass splittings of the doubly charmed J/ψ and η_c mesons and the singly charmed D_s^* and D_s mesons, with the aim to understand the significant cut-off effects that can accompany Wilson type fermion measurements.

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Session Classification: Poster

Track Classification: Hadron Spectroscopy and Interactions