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

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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.

Primary author: RAE, Thomas (University of Wuppertal)

Co-author: Dr DURR, Stephan (University of Wuppertal)

Presenter: RAE, Thomas (University of Wuppertal)

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