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## Charm physics with Moebius Domain Wall Fermions

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We study the feasibility of using a novel discretisation (Moebius) to directly simulate charm physics within the Domain Wall formalism. We then present results for a range of physical quantities including meson masses as well as decay constants and the dispersion relation of heavy-heavy ( $\eta_c$ ) and heavy-strange ( $D_s$ ) pseudoscalar mesons. Four extensive sets of tree-level Symanzik pure gauge ensembles with lattice spacing ranging 0.03-0.1fm allow us to perform a continuum limit of the above quantities in a controlled way. Our numerical studies aim to map out the range of simulation parameters where the properties of Domain Wall Fermions known from light quark physics persist.

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