

Strange nucleon form factors with $N_f = 2 + 1$ $O(a)$ -improved Wilson fermions

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We present preliminary results for strange form factors of the nucleon computed on the CLS ensembles with $N_f = 2 + 1$ flavours of $O(a)$ -improved Wilson fermions. Our calculations are performed at two values of the lattice spacing ($a \in \{0.064, 0.086\}$ fm) at a pion mass of 280 MeV. The determination of strange form factors proceeds by computing quark-disconnected diagrams, for which we employ hierarchical probing in four dimensions, in order to deal with this most challenging part of the calculation. Furthermore, we investigate several source-sink separations to check on excited-state contamination.

Primary author: Mr WILHELM, Jonas (University of Mainz - Institut for Nuclear Physics)

Co-authors: Dr VON HIPPEL, Georg (University of Mainz); Prof. WITTIG, Hartmut (Johannes Gutenberg Universität); Prof. MEYER, Harvey B. (Johannes Gutenberg University Mainz); Dr OTTNAD, Konstantin (University of Mainz); Dr HARRIS, Tim (Milano Bicocca)

Presenter: Mr WILHELM, Jonas (University of Mainz - Institut for Nuclear Physics)

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