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P-wave form factors from the inclusive semileptonic $B\ rightarrow X_c\ell\nu$ decays

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We report our estimation for the Isgur-Wise form factors for the inclusive semileptonic $B \to X_c\ell\nu$ on 2+1-flavor lattice QCD.
The M\"obius domain-wall fermion action is used for light, strange, charm and bottom quarks. The structure function receives contributions from various exclusive modes, including the dominant S-wave states $D_s^{(*)}$ as well as the P-wave states D_s^{**}. In this work, we identify and separate these contributions in the lattice data, from
which we put some constraints on the $B_s \to D_s^{**}\ell\nu$ form factors. Our work takes into account the structure functions for the cases of zero-recoil and non-zero recoil.

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