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Heavy-heavy current improvement for calculating $B^- \rightarrow D^{((*))} lv^-$ semi-leptonic form factors with Oktay-Kronfeld quarks.

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We improve heavy-heavy currents for calculating $B^- \rightarrow D^{\wedge}(())$ $|v^-$ semi-leptonic form factors with Oktay-Kronfeld (OK) heavy quarks. The OK action, which has dimension 6 and 7 interaction terms, can control the discretization errors of heavy quarks (b and c quarks). The OK action is improved through third order in HQET power counting. We report work on heavy-heavy currents to get the systematic improvement of the hadronic matrix elements for $B^- \rightarrow D^{\wedge}(())$ $|v^-$ processes with the OK action.

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