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## Improved currents for B to D(\*) $\ell$ $\nu$ form factors from Oktay-Kronfeld heavy quarks

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The CKM matrix element  $|V_{cb}|$  can be extracted by combining experimentally determined branching fractions for B to D(\*)  $\ell$   $\nu$  decays with form factors from the lattice. While successful, the precision of this approach has been limited by heavy-quark discretization effects. An improved version of the Fermilab action, the Oktay-Kronfeld action, can be used to reduce heavy-quark discretization effects in calculations performed at the physical bottom and charm quark masses. Treating charm and bottom quarks as massive, we carry out tree-level improvement of the flavor-changing currents through third order in the momentum expansion.

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