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Exploring semileptonic $B_s \rightarrow D_s^*$ decays

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Semileptonic $B_{(s)}$ decays are of great phenomenological interest and allow to extract the CKM matrix elements or test lepton flavor universality.

We explore $B_{(s)}$ decays with vector final states by studying $B_s \rightarrow D_s^*$ using the narrow width approximation. Taking advantage of existing data we present first results for the form factors using our setup based on RBC-UKQCD's 2+1 flavor domain-wall fermion and Iwasaki gauge field action. Light quarks are simulated with domain-wall fermions, whereas bottom quarks are simulated with the relativistic heavy quark (RHQ) action.

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