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Semi-leptonic form factors for rare B decays

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We present an update on our calculation of short distance contributions to semi-leptonic form factors for rare B decays. Results for $B_s \rightarrow \phi \ell^+ \ell^-$ at three lattice spacings of $a^{-1} = 1.78, 2.38,$ and 2.76 GeV are shown. Our calculations are based on RBC-UKQCD's $N_f = 2 + 1$ domain-wall fermion and Iwasaki gauge field ensembles. The heavy b -quarks are simulated using the relativistic heavy quark action and domain-wall fermions are used for the light quarks.

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