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Vector and Tensor Decay Constants of Heavy-light Mesons from Lattice QCD

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I will present a very brief overview of a nearly complete study of the vector and tensor decay constants of B^* , B_s^* , D^* , and D_s^* mesons from fully relativistic $n_f = 2 + 1 + 1$ lattice QCD. We use multiple lattice spacings, with both heavy and physical light-quark masses. Ours will be not only the first lattice results for the B^* and B_s^* tensor decay constants, but also the first with percent-level precision. These results constitute key ingredients in precision tests of Standard-Model and beyond-Standard-Model heavy-flavour phenomenology.

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