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## Probing multi-TeV new physics through b->c cbar s transitions

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I consider the flavour physics of the most general b->c cbar s effective hamiltonian at dimension six, comprising 20 independent contact interactions. These interactions can give sizable contributions to radiative B decay, rare semileptonic B decays (P5', right-handed currents, etc) and B-meson lifetime observables. I will present bounds on the relevant contact interactions, which generally correspond to scales of a few TeV to 10 TeV or more. For new physics in one of the SM operators, I consider the CP-violating case. Here I show how how, when including B->J/psi K data, one can both determine the (complex) Wilson coefficient and eliminate the most uncertain hadronic matrix elements, up to a discrete ambiguity.

Author:JAEGER, Sebastian (University of Sussex (GB))Presenter:JAEGER, Sebastian (University of Sussex (GB))Session Classification:Flavor

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