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Vcb from B–> D^* l nu on the lattice

Monday 8 September 2014 17:50 (20 minutes)

I will discuss the recent results for the B->D*lv and B->Dlv semileptonic form factors and the determination of |V_cb| from the Fermilab/MILC collaborations. These lattice calculations use an improved staggered action for the light quarks and the Fermilab action for the charm and bottom quarks; the calculation uses the MILC (asqtad) ensembles with three flavors of sea quarks and five lattice spacings. The zero-recoil B->Dlv calculation is an update of their 2008 result, with higher statistics, finer lattice spacings, and lighter light quark masses. The error is now commensurate with the experimental error. The B->Dlv calculation determines the form factors at non-zero recoil and a combined fit with the experimental data over the full kinematic range is performed to determine |V_cb|. Preliminary results for this channel will be presented.

Presenter: DU, Daping (University of Illinois, Urbana-Champaign)

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