



Contribution ID: 54

Type: **not specified**

B \rightarrow D and $B_s \rightarrow D_s$ semileptonic decays on the lattice

Monday 8 September 2014 17:30 (20 minutes)

We present the results for the normalization of the relevant form factor mediating the semileptonic $B \rightarrow D l \nu$ and $B_s \rightarrow D_s l \nu$ decays in the Standard Model, as obtained by using the maximally twisted mass QCD on the lattice with $N_f=2$ dynamical light quarks, and with the fully propagating heavy quark. Furthermore, the form factors needed for description of these decays in a generic scenarios of physics beyond the Standard Model near zero recoil are also presented.

Preliminary results for $F(1)$, needed to normalize $B \rightarrow D l \nu$ and $B_s \rightarrow D_s l \nu$ decays, are also presented in this talk.

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Session Classification: WG2