



Contribution ID: 207

Type: Poster

Heavy-heavy current improvement for calculating $B^- \rightarrow D^{(*)} l \nu^-$ semi-leptonic form factors with Oktay-Kronfeld quarks.

Wednesday, 15 July 2015 18:30 (2h 30m)

We improve heavy-heavy currents for calculating $B^- \rightarrow D^{(*)} l \nu^-$ semi-leptonic form factors with Oktay-Kronfeld (OK) heavy quarks. The OK action, which has dimension 6 and 7 interaction terms, can control the discretization errors of heavy quarks (b and c quarks). The OK action is improved through third order in HQET power counting. We report work on heavy-heavy currents to get the systematic improvement of the hadronic matrix elements for $B^- \rightarrow D^{(*)} l \nu^-$ processes with the OK action.

Primary authors: Mr LEEM, JAEHOON (Seoul National University); Dr BAILEY, Jon (Seoul National University); Prof. LEE, WEONJONG (Seoul National University); Mr JANG, Yong-Chull (Seoul National University)

Presenter: Mr LEEM, JAEHOON (Seoul National University)

Session Classification: Poster Session

Track Classification: Weak Decays and Matrix Elements