Mini-workshop on D(*) tau nu and related topics

Contribution ID: 18

Test of lepton universality with B->p pbar I nu decays

Tuesday 28 Mar 2017 at 14:30 (00h35')

Content :

Given on behalf of the LHCb collaboration:

Should the discrepancy between theoretical predictions and measurements of R(D^{*}) and R(D) persist with new data at LHCb and Belle II it will be important to measure lepton non-universality in transitions other than b->c in order to characterise the underlying physics causes. With the large dataset of semi-leptonic decays collected by LHCb in Run 1 and Run 2 even modes that are not CKM favoured are able to be probed. Here a proposal for such a measurement at LHCb with a b->u transition via B->pplnu will be presented. Such an analysis will probe different and complementary physics to the previous R(D) and R(D^{*}) measurements. The steps towards a measurement of R(ppbar) at LHCb will be outlined with the experimental and theoretical challenges highlighted.

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Session classification : --not yet classified--

Track classification : -- not yet classified--

Type : --not specified--