

# Mini-workshop on $D^{(*)}$ tau nu and related topics

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## Measuring backgrounds from $B \rightarrow D^{(*)} X l \nu$ decays

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### Content :

Measurements of  $B \rightarrow D^{(*)} \tau \nu$  where the tau decays leptonically are sensitive to our understanding of background from semileptonic B decays to a D or  $D^{(*)}$  meson and one or more additional hadrons (X). Decays where X is a single pi are relatively well measured, but only one measurement has been made where X is a  $\pi^+ \pi^-$  system and no measurements have been made where X is  $\pi \pi^0$ ,  $3\pi$ ,  $\eta$  or other higher-mass combinations. In this presentation I review the existing measurements in this area and discuss prospects for improving the experimental knowledge of these decay modes in future experiments.

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