

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

Contribution ID : 4

## Belle results on $D^{*}\tau$ nu and $B \rightarrow \tau$ nu.

Monday 27 Mar 2017 at 11:55 (00h35')

### Content :

The decays  $B \rightarrow \tau$  nu and  $B \rightarrow D^{*}\tau$  nu are the type of (semi)leptonic decays with a tau lepton in the final state. Owing to the massive tau lepton, these decays are sensitive to new physics having an enhanced coupling to the tau lepton, such as the charged Higgs boson in type-II Two-Higgs-Doublet Model. Using the clean environment of  $e^{+}e^{-}$  collisions at the center-of-mass energy of 10.58 GeV, Belle has established two measurements of  $B \rightarrow \tau$  nu and three  $B \rightarrow D^{*}\tau$  nu measurements with the full data sample. In this presentation, results from these measurements will be reviewed.

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**Session classification :** --not yet classified--

**Track classification :** --not yet classified--

**Type :** --not specified--