

New Physics at Belle II

Discussion session I

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Discussion on models

We have two discussion sessions, one on NP models and one on codes (tomorrow).

Things to discuss:

- Which models?
 - Priorities among the discussed models?
 - Which models haven't we discussed?
- Which models need better/different codes?

NP Models

- Generic **Two-Higgs-doublet** model
aligned model
 Andreas Crivellin
Alejandro Celis
- Model-independent (Wilson coefficient) analysis of $B \rightarrow D^{(*)} \tau \nu$
Ryoutaro Watanabe
- Model-independent (Wilson coefficient) analysis of $B \rightarrow K^{(*)} f \bar{f}$ with
 $f = \ell^-, \nu$.
 Christoph Niehoff
- light weakly coupled particles (axions, ...) (signature:
 $B \rightarrow K^{(*)} + \text{missing energy}$)
- Z' models
 Lars Hofer
- Gauged flavour models
 Andreas Crivellin, Admir Greljo
- models with vector-like heavy quarks
- supersymmetry see talks on codes