

EvtGen model for New Physics in $B \rightarrow D^* \ell \nu$

Lopamudra Mukherjee

School of Physics,
Nankai University

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Plan of the talk

- Effective Hamiltonian and differential decay distribution for $B \rightarrow D^* \ell \nu$ including new physics.
- New Physics implementation in EvtGen - One can find the module at : https://github.com/qdcampagna/BTODSTARLNUNP_EVTGEN_Model
- An example of a user decay file to illustrate the usage of the NP MC generator.
- Application of the new module : New physics angular analysis study using the new MC generator, (*arXiv: 2206.11283*).
- New physics sensitivity at Belle II.
- Limitations of the framework and ongoing work/future plans.