

BToDInu Reskim

Status Update

BToDlnu reskim

- Input = BToDlnu skims.
- Package = BToDlnuMiniUser V01-01-01.
 - Can reskim many streams at once.
 - Add missing BToDstarEnu candidates.
- Production:
 - Shenjian Chen – BpBm and B0B0bar MC
 - Kenji Hamano – Data and ccbar, uds, and tauatu MC
- Publicaiton – Peter Elmer

BToDlnu reskim: 3 Streams

- Double Tag (Kenji)
 - Recoil side – Dlnu. (Tag side – Dlnu)
 - Selection rate: $\sim 2\text{-}3\%$
- Additional Lepton (Silvie, Shenjian)
 - Recoil side - lepton (electron or muon). (Tag side – Dlnu)
 - Use PidLHElectrons and MuonNNLoose. No momentum cut.
 - Selection rate: $\sim 30\text{-}40\%$
- BtoXGamma (Michael Spitznagel)
 - FilterTools/BtoXGammaFilter
 - Selection rate: $\sim 6\text{-}7\%$

Production Status

- Production was completed.
- Publication
 - Published: Run1-3 Data, uds MC and Run1-4 BpBm MC
 - Names of datasets are something like:
awg-semilep-BToDlnu-AddLepton-Run1-OffPeak-R14-Total
awg-semilep-BToDlnu-BtoXGamma-Run1-OffPeak-R14-Total
awg-semilep-BToDlnu-DoubleTag-Run1-OffPeak-R14-Total
awg-semilep-SP-BpBm-BToDlnu-AddLepton-Run1-R14
awg-semilep-SP-BpBm-BToDlnu-BtoXGamma-Run1-R14
awg-semilep-SP-BpBm-BToDlnu-DoubleTag-Run1-R14
awg-semilep-SP-uds-BToDlnu-AddLepton-Run3-R14
awg-semilep-SP-uds-BToDlnu-BtoXGamma-Run3-R14
awg-semilep-SP-uds-BToDlnu-DoubleTag-Run3-R14
 - The rest is on the way.

To do list

- Add bookkeeping data.
- Write BAD.
- QA of sub-skims.