

BToDInu Reskim

Status Update

BToDlnu reskim: 3 Streams

- Double Tag (Kenji)
 - More than two non-overlap Dlnu candidates
 - Selection rate: $\sim 2\text{-}3\%$
- Additional Lepton (Silvie, Shenjian)
 - More than one non-overlap lepton (electron or muon) in addition to Dlnu candidates
 - 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

- Data (Run1-4; OnPeak and OffPeak) – Kenji
 - Reskimmed and merged datasets:
 - BToDInu-Run2-OffPeak-R14-Total
 - BToDInu-Run3-OffPeak-R14-Tota
 - Half of BToDInu-Run2-OnPeak-R14-Total
 - ~15 % is done.
- MC (Run1-4; BpBm, B0B0bar, ccbar, uds and tau+tau-) -- Shenjian
 - Reskimmed and merged datasets:
 - SP-BToDInu-BpBm-Run1-R14
 - Reskimmed datasets:
 - SP-BToDInu-BpBm-Run2-R14
 - ~7 % is done.

Status and Outlook

- Eugenio's tcl file saved 70 % of CPU time on composition sequence.
- Test production – OK.
- Sub-skim production
 - Production is basically smooth. No major problem.
 - Run1 data has a problem – I'll deal with this later.
 - Merge has no problem.
 - Need to publish merged collections.
 - Need a bit more experience before everything become automatic. Still developing scripts.
 - Need two or three more weeks to complete everything.