

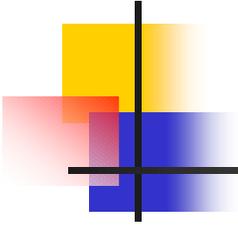
Secondary Dataset of Lepton+Track

Lepton+Track Group Meeting

-Takashi Ogawa-

8/28/2002

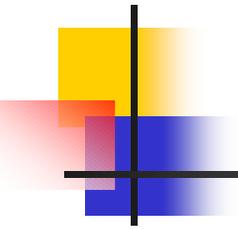




Motivation

- We already have Stntuple datasets, but...
- Small and quality data will help our validation, physics studies and so on.
- Common selection is more persuasive.
- Re-production may be needed for further study ,e.g. Re-TauFinder





Main Objectives

- Main objective is to prepare smaller files to handle easily.
- Can get results quickly with this dataset.
 - I don't think of studies like background, cut optimization or eff rate.
 - Example: $Z \rightarrow ??$, Validation, Comparisons to overlap
- File size : $\sim 1\text{k evts}$ ($\sim 250\text{MB}$) / pb^{-1}
(Larger if possible)
- Cut Parameters should be less dependent on CDFSOFT.



Electron Cut

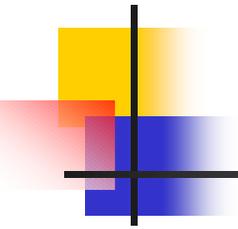
| | Cut |
|---|-------------------|
| Eta | CEM coverage |
| E_T (raw) | > 8 GeV |
| E/P (raw) | > 0.5, < 2.0(1.8) |
| Had/Em | < 0.125(0.05) |
| Lshr | < 0.2 |
| COT Hits (A_x,S_t) | >= 25 |
| z₀ | < 60 cm |
| ΔX _{cor} | < 3 cm |
| ΔZ _{cor} | < 5 cm |
| FIDELE | required |



Muon Cut

| | Cut |
|--------------------------------------|------------------|
| CMUP | required |
| PT (raw) | > 8 GeV |
| dx(CMU) | $< 5(3)$ cm |
| dx(CMP) | $< 10(6)$ cm |
| COT Hits (Ax,St) | ≥ 25 |
| d0 _{cor} (COT only) | $< 0.3(0.15)$ cm |
| z0 | < 60 cm |
| EM | < 2 GeV |
| HAD | < 6 GeV |

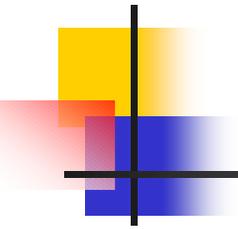




Iso. Track Cut

| | Cut |
|---|------------------|
| eta | < 1.1 |
| P_T (raw) | > 4 GeV |
| $ d_0 _{\text{cor}}$ (COT only) | $< 0.3(0.15)$ cm |
| COT Hits (A_x, St) | ≥ 25 |
| $ z_0 $ | < 60 cm |
| $ z_0^{\text{trk}} - z_0^{\text{lep}} $ | < 10 cm |

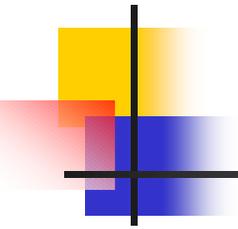




Other Selections

- Select Good Run
 - $Lum \geq 10(50) nb^{-1}$
 - GoodRun:RC is checked.
 - Good Run List (COT, CAL, Muon,...)
 - ...





Plan

- Determine
 - cuts taking account of suppression.
 - runs which should be stripped.
- Option
 - Very tight and Loose Samples.

I believe this work supports various studies.

