Non-Prompt J/psi Analysis

PbPb @ 5.02 TeV





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Mar 09, 2020

IFJ-ALICE Meetings

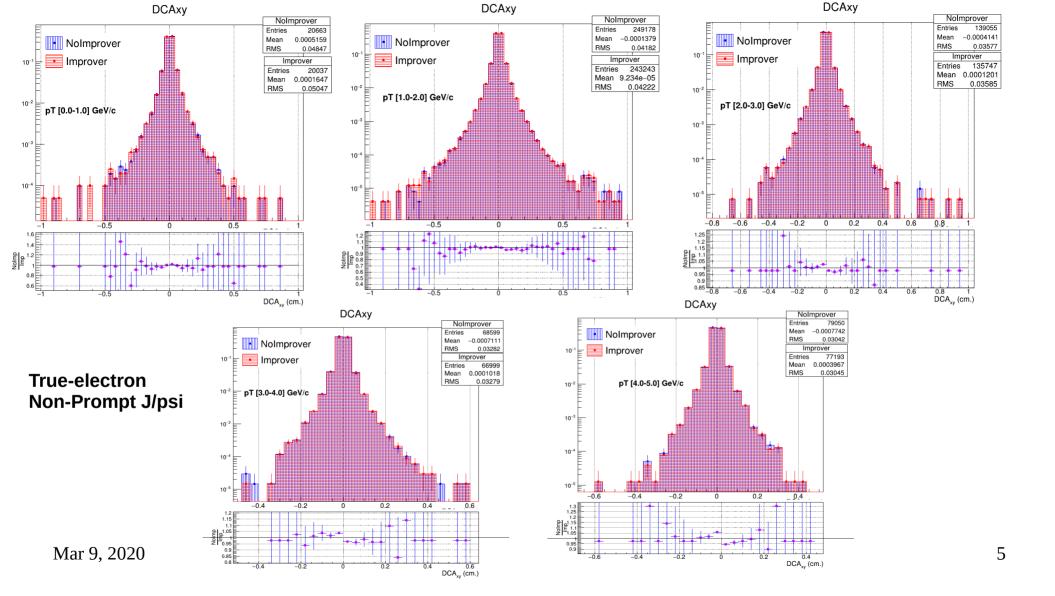
Activities -

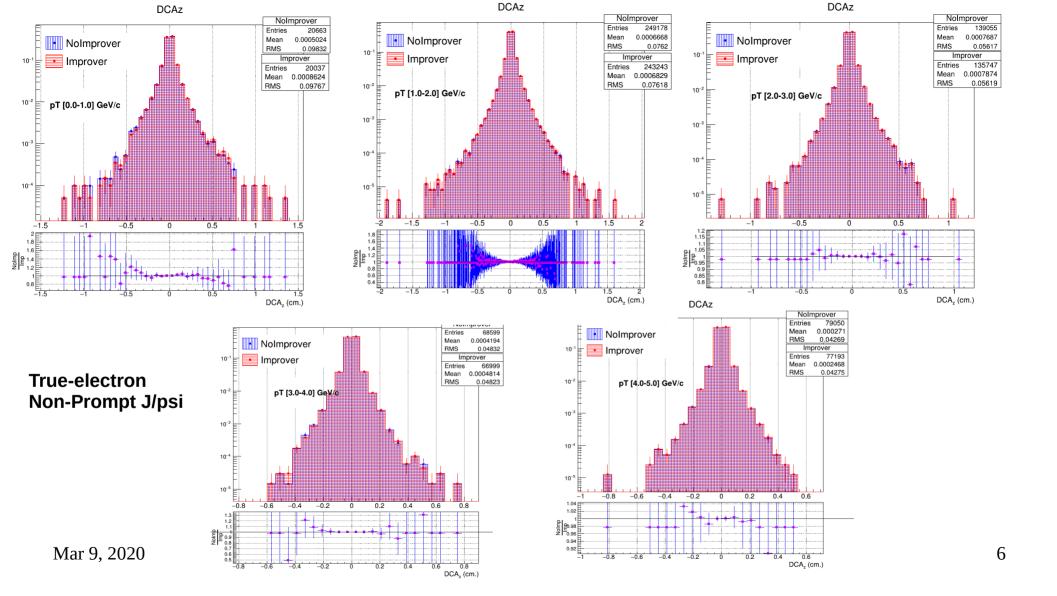
• Results of Improver Task

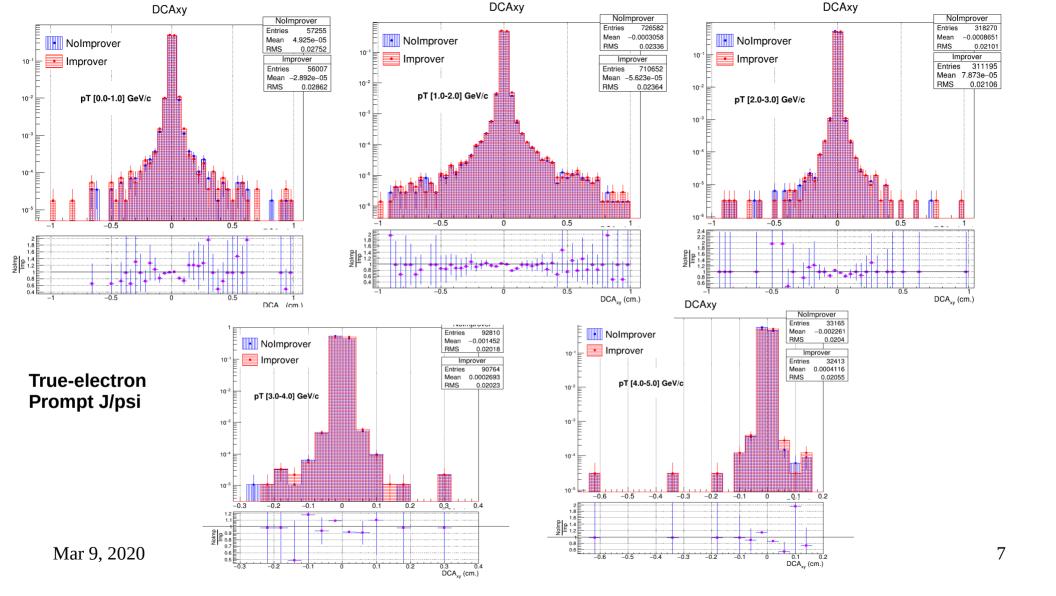
Details -

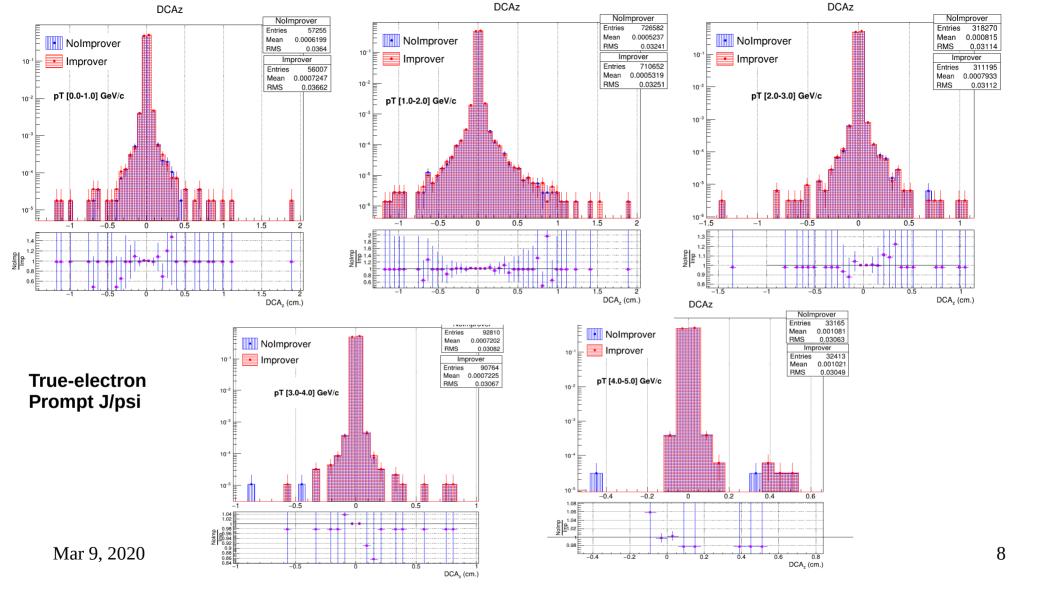
- Dataset : 92 runs from LHC19f1b (Central_Barrel_Tracking list from DPG)
- 0-30% Centrality (PbPb)
- Purpose : To match the DCAs in Data and MC

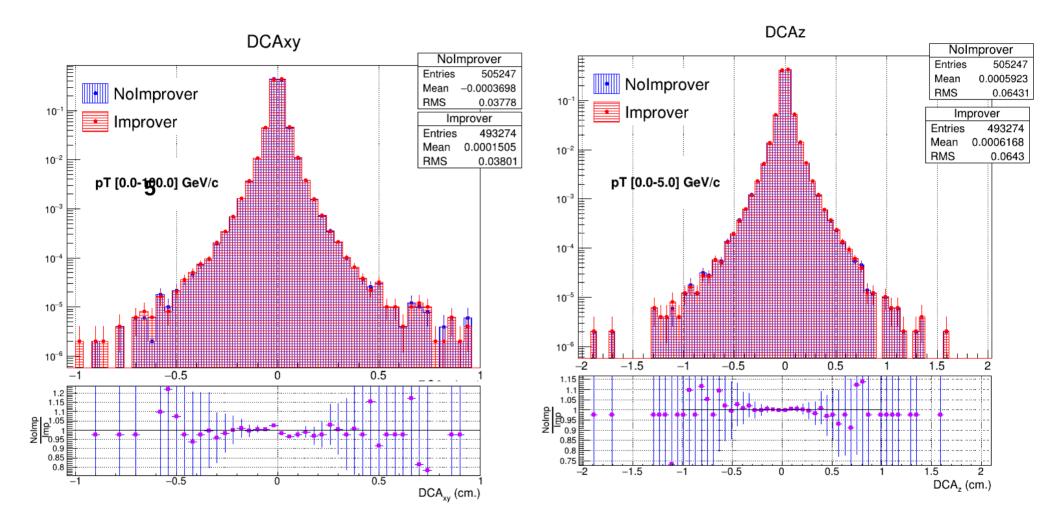
- The following results for are for True-Electrons (Prompt & Non-Prompt jpsi)
- 90 times more stats than last week.
- These results are for ~900K events.
- Default selection crieteria (See Backup)
- Compared Obsevables : DCAs & Lxy



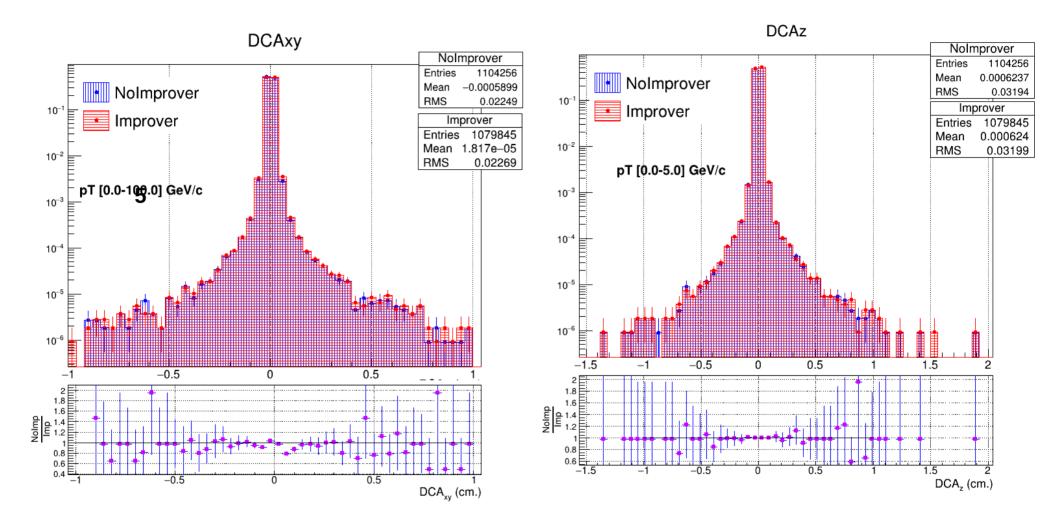






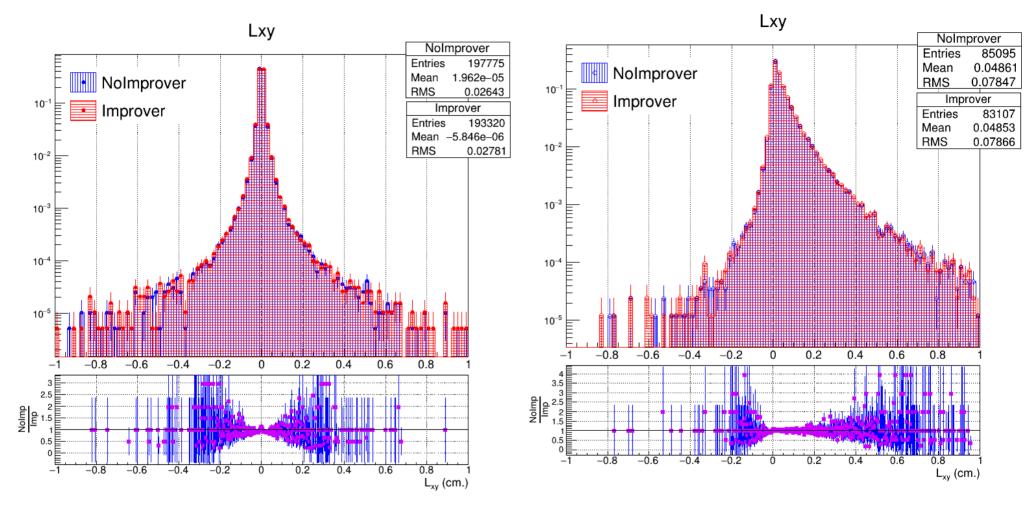


True-Electron Nonprompt



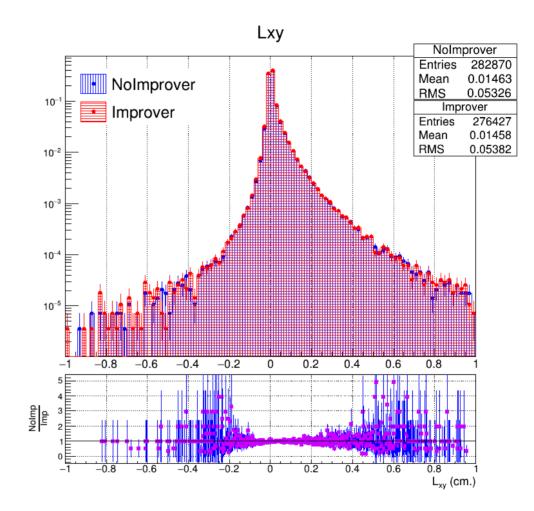
Mar 9, 2020

True-Electron Prompt



Mar 9, 2020 True-Electron Prompt

True-Electron NonPrompt



True-Electron from Jpsi (Combined from Slide 11)

Back-Up

Cuts Used

```
- StandardCut
    - BasicCut
        - standardPrimarv
            - DCAxv
            - DCAz
        - rejectKinks

    standardITStracking

            - ITS refit
            - SPD any
            - chi2 (0,36)
        - standardTPCtracking
            - TPCnCls(70.,160.0)
            - kTPCnclsSharedRatio, 0.3, 2 (Exclude this region)
            - kTPCcrossedRowsOverFindableClusters, 0.8, 2.
            - kTPCchi2, 0.1, 4.0
    - StandardKine
        - Pt (1,30)
        - Eta (-0.9,0.9)
- Pair Prefilter ====> (kMass, 0.0, 0.05, kTRUE) Mass Exclusion Cut
- Track Prefilter ====> (kPt, 0.9,1000.0) && SetTrackFilterBit(kPrefilterCut)
- PairKine ===>
              pairKine->AddCut(AliReducedVarManager::kPt, 0.0,100.0);
              pairKine->AddCut(AliReducedVarManager::kRap, -0.9,0.9);
              pairKine->AddCut(AliReducedVarManager::kMass, 2.0, 4.0);
```