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October Exercise (OCTX) on QCD and Underlying Events Analysis

Introduction

- Use the common low- p_T skim or the whole RECO.
- The analysis is related to the Underlying Event activity measurement in charged jets events. A detailed description is here [QCD-07-003](#).

The aim is to provide plots for the early paper analysis [QCD-09-007](#): Measurement of the Underlying Event in Jet Topologies using Charged Particle and Momentum densities at 10(7) TeV.

People involved

- Contact people: Yuan Chao (priority user), Paolo Bartalini, Livio Fano', Rick Field
- Use ASGC T2 and any T2s where the data is available.
- Reference TWIKI: MBUE

PD

- As the MinBias and QCD_Pt15 SD samples are highly pre-scaled, we originally planed to make a PD ourselves from the RECO sample. However, due to various delays, this is not really proceed.

SD skims

- STEPS for 10 TeV SD
 - ◆ **STEP0**: Locate the SD we need (HLT bit based selection), MinBias and JetXX streams
 - ◆ * (STEP0-low statistics because of additional prescales: Locate the SD we need: SD_MinBiasPixel, SD_Jet15U, SD_Jet30U_Quad_Fwd, SD_Jet50U)
 - ◆ **STEP1**: The priority user is expected to run via CRAB over the PDs (or SDs) and create the group skims (low_pT_PD_AOD or low_pT_SD_AOD)
 - ◆ **STEP2**: publish the AOD output in local DBS
 - ◆ **STEP3**: Run the UEAnalysis via CRAB on the skim to validate skim and then send to ResultStore service
 - ◆ **STEP4**: Transfer the datasets in ASGC T2 (and an additional group-T2)
- STEPS for 7 TeV SD
 - ◆ **STEP0**: Locate the SD we need (HLT bit based selection), MinBias and JetXX streams
 - ◆ * Subscribing all needed samples to T2_Taiwan. At the same time, use other T2s.
 - ◆ **STEP1**: The priority user is expected to run via CRAB over the PDs (or SDs) and create the group skims (low_pT_PD_AOD or low_pT_SD_AOD)
 - ◆ **STEP2**: publish the AOD output in local DBS
 - ◆ **STEP3**: Run the UEAnalysis via CRAB on the skim to validate skim and then send to ResultStore service
 - ◆ **STEP4**: Transfer the datasets in ASGC T2 (and an additional group-T2)

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Group Name	acronym	dataset	expected size	T2 production site	T2 target site
QCD	CHJETUE	SD_MinBiasPixel	93G	US_Nebraska	T2_Taiwan
QCD	CHJETUE	SD_Jet15U	105G		T2_Taiwan

				US_MIT, US_Caltech, DE_DESY, FI_HIP	
QCD	CHJETUE	SD_Jet30U	2.3G	US_MIT, US_Caltech, DE_DESY, FI_HIP	T2_Taiwan
QCD	CHJETUE	SD_Jet50U	93G	US_Caltech, FR_IPHC, IT_Pisa, US_MIT, DE_DESY, FI_HIP	T2_Taiwan

Group Name	skim name (1)	input dataset(s) (2)	expected reduction (skim fraction)	output data tier
QCD	QCDlowpT	MinBias, QCD_JetXX	~37% of the original kept	AOD/rootuple

Details moved to CHJETUEOct09Ex

reference Tier2

schedule

CRAB jobs

detail dates

priority users

-- YuanChao - 2009-09-30

This topic: Main > YuanChaoOctoberExerciseMBUE

Topic revision: r3 - 2009-11-12 - YuanChao



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