### Details of the 53X SQL file Winter14\_V8

# Alexx Perloff<sup>1</sup>, on behalf of the CMS-JERC Group

<sup>1</sup>Mitchell Institute for Fundamental Physics and Astronomy Department of Physics and Astronomy Texas A&M University College Station, Texas 77843 aperloff@physics.tamu.edu

February 19, 2015

Same as Winter14\_V5, but with updated L5Flavor corrections



## L1 Pile Up Payloads

- MC payloads created by Alexx & Andrea. PFchs derived on May 30th, 2014 by Alexx and PF derived on June 3rd, 2014 by Andrea. The correction for Calo was done only using rho (FASTJET) and derived by Andrea on March 6th, 2014.
- The AK5 and AK7 PF and PFchs MC corrections were taken from the Winter14\_V1 corrections derived on March 6th, 2014 as well due to increased statistics.
- All L1 DATA payloads are from an email sent my Mikko on September 12, 2014 at 7:52am (CST) with the subject "Fwd: L1FastJet problems."

#### Official Recommendation Payloads:

	MC	DATA	#payloads	
PF	Winter14_V1_MC_L1FastJet_AK5PF.txt	Winter14_V5_DATA_L1FastJet_AK5PF.txt	4	
	Winter14_V1_MC_L1FastJet_AK7PF.txt	Winter14_V5_DATA_L1FastJet_AK7PF.txt		
PFchs	Winter14_V1_MC_L1FastJet_AK5PFchs.txt	Winter14_V5_DATA_L1FastJet_AK5PFchs.txt		
	Winter14_V1_MC_L1FastJet_AK7PFchs.txt	Winter14_V5_DATA_L1FastJet_AK7PFchs.txt	4	
Calo	Winter14_V1_MC_L1FastJet_AK5Calo.txt	Winter14_V5_DATA_L1FastJet_AK5Calo.txt		
	Winter14_V1_MC_L1FastJet_AK7Calo.txt	Winter14_V5_DATA_L1FastJet_AK7Calo.txt	4	

#### Total L1: 12 payloads.

- PFchs derived on May 30th, 2014 by Alexx and PF derived on June 3rd, 2014 by Andrea. The correction for Calo was derived by Andrea on March
  6th, 2014.
- The AK5 and AK7 PF and PFchs MC corrections were taken from the Winter14\_V1 corrections derived on March 6th, 2014 as well due to increased statistics.
- See Alexx' page for closure and correction plots.
- These were derived on top of the L1's of previous slide.
- Set provided by Alexx was expanded by hand a follows.
  - rename files to get rid of endings with "I1" or "I1off" (such as \*Calol1off.txt, or \*PFI1.txt)
  - create DATA txt which are an exact copy of the MC.
  - create copies for L3Absolute from file L3Absolute\_template\_txt

	MC	DATA	#payloads
PF	CSA14_V1_MC_L2Relative_AK5PF.txt	copy of MC	4
	Winter14_V1_MC_L2Relative_AK7PF.txt	copy of MC	
PFchs	CSA14_V1_MC_L1FastJet_AK5PFchs.txt Winter14_V1_MC_L2Relative_AK7PFchs.txt	copy of MC	4
Calo	Winter14_V1_MC_L2Relative_AK5Calo.txt	copy of MC	4
Calo	Winter14_V1_MC_L2Relative_AK7Calo.txt	copy of MC	-

Total L2: 12 payloads.

Total L3: 12 payloads. All return a correction factor of one.

## L2L3Residuals Payloads

- Calo L2L3Residual files were taken the attachment in the email called Summer13\_V4
- The residual files were provided by Dennis Rathjens in an email on August 28, 2014 at 16:42:54 GMT+3 with subject "Re: winter14 correction update."
  - AK7PFchs is a copy of AK7PF.

	MC	DATA	#payloads
PF	copy of DATA copy of DATA	Winter14_V5_DATA_L2L3Residual_AK5PF.txt Winter14_V5_DATA_L2L3Residual_AK7PF.txt	4
PFchs	copy of DATA copy of DATA	Winter14_V5_DATA_L2L3Residual_AK5PFchs.txt copy of AK7PF	4
Calo	copy of DATA copy of DATA	Summer13_V4_DATA_L2L3Residual_AK5Calo.txt Summer13_V4_DATA_L2L3Residual_AK7Calo.txt	4

Total L2L3Residuals: 12 payloads.

- These flavor corrections use the physics definition of flavor. In the past we used the algorithmic definition.
- All of the corrections are a copy of the AK5PFchs flavor corrections.
- This file was created on November 11, 2014 and was originally intended to be used only for JME-13-004.

	MC	DATA	#payloads
PF	copy of PFchs	copy of PFchs	4
	copy of PFchs	copy of PFchs	
PFchs	Winter14_V5_DATA_L2L3Residual_AK5PFchs.txt	copy of MC	4
	copy of AK5	copy of MC	4
Calo	copy of PFchs	copy of PFchs	4
	copy of PFchs	copy of PFchs	4

Total L5Flavor: 12 payloads.

## **Uncertainties Payloads**

- All uncertainties, including the uncertainty sources, were provided by Mikko in an email on September 26, 2014 at 5:40 PM CST with subject "Uncertainties for Winter14\_V5 - ready for GT?"
  - Contained the tar file uncert\_Winter14\_V5.tar.gz with the original era being Winter14\_V8M\_MC and Winter14\_V8M\_DATA

#### Uncertainty Payloads:

0 0 0 0 0.	mily rayioudo.			
	MC	DATA	#payloads	
PF	Winter14_V8M_MC_Uncertainty_AK5PF.txt	Winter14_V8M_DATA_Uncertainty_AK5PF.txt	4	
	Winter14_V8M_MC_Uncertainty_AK7PF.txt	Winter14_V8M_DATA_Uncertainty_AK7PF.txt	4	
PFchs	Winter14_V8M_MC_Uncertainty_AK5PFchs.txt	Winter14_V8M_DATA_Uncertainty_AK5PFchs.txt		
	Winter14_V8M_MC_Uncertainty_AK7PFchs.txt	Winter14_V8M_DATA_Uncertainty_AK7PFchs.txt	4	
Calo	Winter14_V8M_MC_Uncertainty_AK5Calo.txt	Winter14_V8M_DATA_Uncertainty_AK5Calo.txt		
	Winter14_V8M_MC_Uncertainty_AK7Calo.txt	Winter14_V8M_DATA_Uncertainty_AK7Calo.txt	*	

Total Uncertainty: 12 payloads.

Uncertainty Sources: 4 files to be added to twiki

## Payload counting

	MC	DATA	Subtotal
L1	6	6	12
L2	6	6	12
L3	6	6	12
Res	6	6	12
L5	6	6	12
Unc	6	6	12
TOTAL	36	36	72

Total Payloads in SQL file: 72 payloads

Plus 4 UncertaintySources that should go on the twiki page.