

Details of the 53X SQL file CSA14_V2

Alexx Perloff¹,
on behalf of the CMS-JERC Group

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

September 30, 2014

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.
- AK5 and AK7 DATA payloads were taken from Summer13_V4 on June 10, 2014 at 1:28pm (CST). The rest are copies of the MC payloads.

Official Recommendation Payloads:

	MC	DATA	#payloads
PF	CSA14.V1.MC.L1FastJet.AK1PF.txt CSA14.V1.MC.L1FastJet.AK2PF.txt CSA14.V1.MC.L1FastJet.AK3PF.txt CSA14.V1.MC.L1FastJet.AK4PF.txt Winter14.V1.MC.L1FastJet.AK5PF.txt CSA14.V1.MC.L1FastJet.AK6PF.txt Winter14.V1.MC.L1FastJet.AK7PF.txt CSA14.V1.MC.L1FastJet.AK8PF.txt CSA14.V1.MC.L1FastJet.AK9PF.txt CSA14.V1.MC.L1FastJet.AK10PF.txt	copy of MC copy of MC copy of MC copy of MC Winter14.V1.DATA.L1FastJet.AK5PF.txt copy of MC Winter14.V1.DATA.L1FastJet.AK7PF.txt copy of MC copy of MC copy of MC	20
PFchs	CSA14.V1.MC.L1FastJet.AK1PFchs.txt CSA14.V1.MC.L1FastJet.AK2PFchs.txt CSA14.V1.MC.L1FastJet.AK3PFchs.txt CSA14.V1.MC.L1FastJet.AK4PFchs.txt Winter14.V1.MC.L1FastJet.AK5PFchs.txt CSA14.V1.MC.L1FastJet.AK6PFchs.txt Winter14.V1.MC.L1FastJet.AK7PFchs.txt CSA14.V1.MC.L1FastJet.AK8PFchs.txt CSA14.V1.MC.L1FastJet.AK9PFchs.txt CSA14.V1.MC.L1FastJet.AK10PFchs.txt	copy of MC copy of MC copy of MC copy of MC Winter14.V1.DATA.L1FastJet.AK5PFchs.txt copy of MC Winter14.V1.DATA.L1FastJet.AK7PFchs.txt copy of MC copy of MC copy of MC	20
Calo	Winter14.V1.MC.L1FastJet.AK5Calo.txt Winter14.V1.MC.L1FastJet.AK7Calo.txt	Summer13.V4.DATA.L1FastJet.AK5Calo.txt Summer13.V4.DATA.L1FastJet.AK7Calo.txt	4

Total L1 : 44 payloads.

L2L3 MC-truth 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 "l1" or "l1off" (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_AK1PF.txt CSA14.V1.MC.L2Relative_AK2PF.txt CSA14.V1.MC.L2Relative_AK3PF.txt CSA14.V1.MC.L2Relative_AK4PF.txt Winter14.V1.MC.L2Relative_AK5PF.txt CSA14.V1.MC.L2Relative_AK6PF.txt Winter14.V1.MC.L2Relative_AK7PF.txt CSA14.V1.MC.L2Relative_AK8PF.txt CSA14.V1.MC.L2Relative_AK9PF.txt CSA14.V1.MC.L2Relative_AK10PF.txt	copy of MC copy of MC copy of MC copy of MC copy of MC copy of MC copy of MC copy of MC copy of MC copy of MC	20
PFchs	CSA14.V1.MC.L1FastJet_AK1PFchs.txt CSA14.V1.MC.L2Relative_AK2PFchs.txt CSA14.V1.MC.L2Relative_AK3PFchs.txt CSA14.V1.MC.L2Relative_AK4PFchs.txt Winter14.V1.MC.L2Relative_AK5PFchs.txt CSA14.V1.MC.L2Relative_AK6PFchs.txt Winter14.V1.MC.L2Relative_AK7PFchs.txt CSA14.V1.MC.L2Relative_AK8PFchs.txt CSA14.V1.MC.L2Relative_AK9PFchs.txt CSA14.V1.MC.L2Relative_AK10PFchs.txt	copy of MC copy of MC copy of MC copy of MC copy of MC copy of MC copy of MC copy of MC copy of MC copy of MC	20
Calo	Winter14.V1.MC.L2Relative_AK5Calo.txt Winter14.V1.MC.L2Relative_AK7Calo.txt	copy of MC copy of MC	4

Total L2 : 44 payloads.

Total L3 : 44 payloads. All return a correction factor of one.

L2L3Residuals Payloads

- Calo L2L3Residual files were taken the attachment in the email called Summer13_V4
- AK7 PF and PFchs files were also taken the attachment in the email called Summer13_V4
- AK5 PF and PFchs corrections taken from [Dennis's website](#)
 - File created by Denis, Henning. Sent by email on June 10th, 2014 at 12:01pm (CST) (Subject: Files for Winter14)

	MC	DATA	#payloads
PF	Empty Empty Empty Copy of DATA Copy of DATA Empty Copy of DATA Copy of AK7PF Empty Empty	Empty Empty Empty Copy of AK5PF Winter14_V1_DATA.L2L3Residual_AK5PF.txt Empty Copy of AK5PF Copy of AK7PF Empty Empty	8
PFchs	Empty Empty Empty Copy of DATA Copy of DATA Empty Copy of DATA Copy of AK7PFchs Empty Empty	Empty Empty Empty Copy of AK5PFchs Winter14_V1_DATA.L2L3Residual_AK5PFchs.txt Empty Copy of AK5PFchs Copy of AK7PFchs Empty Empty	8
Calo	Copy of DATA Copy of DATA	Summer13_V4_DATA.L2L3Residual_AK5Calo.txt Summer13_V4_DATA.L2L3Residual_AK7Calo.txt	4

Total L2L3Residuals : 20 payloads.

Uncertainties Payloads

- Files created by Mikko named Summer13_V4_Uncertainties.tgz in email on July 02nd, 2013 at 8:50pm (CST) by Hartmut (Subject: New uncertainty files for rereco)
- Taken from Summer13_V4

Uncertainty Payloads:

	MC	DATA	#payloads
PF	Empty Empty Empty Copy of DATA Copy of DATA Empty Copy of DATA Copy of AK7PF Empty Empty	Empty Empty Empty Copy of AK5PF Summer13_V4_DATA_Uncertainty_AK5PF.txt Empty Summer13_V4_DATA_Uncertainty_AK7PF.txt Copy of AK7PF Empty Empty	8
PFchs	Empty Empty Empty Copy of DATA Copy of DATA Empty Copy of DATA Copy of AK7PFchs Empty Empty	Empty Empty Empty Copy of AK5PFchs Summer13_V4_DATA_Uncertainty_AK5PFchs.txt Empty Summer13_V4_DATA_Uncertainty_AK7PFchs.txt Copy of AK7PFchs Empty Empty	8
Calo	Copy of DATA Copy of DATA	Summer13_V4_DATA_Uncertainty_AK5Calo.txt Summer13_V4_DATA_Uncertainty_AK7Calo.txt	4

Total Uncertainty : 20 payloads.

Payload counting

	MC	DATA	Subtotal
L1	22	22	44
L2	22	22	44
L3	22	22	44
Res	10	10	20
Unc	10	10	20
TOTAL	86	86	172

Total Payloads in SQL file : 172 payloads