

Details of the 53X SQL file Legacy11_V1

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L1 Pile Up Payloads

- All L1 payloads were taken from 2011Legacy.tgz, which was sent by email from Hartmut Stadie on February 10, 2014 at 12:58pm (CST).
 - These corrections reportedly come from the global tags START53.V27 (MC) and FT53.V21A_AN6 (DATA).
 - These global tags were populated by Summer13.V4 corrections.

Official Recommendation Payloads:

	MC	DATA	#payloads
PF	Legacy11.V1.MC.L1FastJet-AK5PF.txt Legacy11.V1.MC.L1FastJet-AK7PF.txt	Legacy11.V1.DATA.L1FastJet-AK5PF.txt Legacy11.V1.DATA.L1FastJet-AK7PF.txt	4
PFchs	Legacy11.V1.MC.L1FastJet-AK5PFchs.txt Legacy11.V1.MC.L1FastJet-AK7PFchs.txt	Legacy11.V1.DATA.L1FastJet-AK5PFchs.txt Legacy11.V1.DATA.L1FastJet-AK7PFchs.txt	4
Calo	Legacy11.V1.MC.L1FastJet-AK5Calo.txt Legacy11.V1.MC.L1FastJet-AK7Calo.txt	Legacy11.V1.DATA.L1FastJet-AK5Calo.txt Legacy11.V1.DATA.L1FastJet-AK7Calo.txt	4
JPT	Legacy11.V1.MC.L1FastJet-AK5JPT.txt Legacy11.V1.MC.L1FastJet-AK7JPT.txt Legacy11.V1.MC.L1Offset-AK5JPT.txt Legacy11.V1.MC.L1Offset-AK7JPT.txt	Legacy11.V1.DATA.L1FastJet-AK5JPT.txt Legacy11.V1.DATA.L1FastJet-AK7JPT.txt Legacy11.V1.DATA.L1Offset-AK5JPT.txt Legacy11.V1.DATA.L1Offset-AK7JPT.txt	8

Zero Suppression Payloads for JPT:

	MC	DATA	#payloads
JPT	Legacy11.V1.MC.L1JPTOffset-AK5JPT.txt Legacy11.V1.MC.L1JPTOffset-AK7JPT.txt	Legacy11.V1.DATA.L1JPTOffset-AK5JPT.txt Legacy11.V1.DATA.L1JPTOffset-AK7JPT.txt	4

Total L1 : 24 payloads

L2L3 MC-Truth Payloads

- All L2Relative and L3Absolute payloads were taken from 2011Legacy.tgz, which was sent by email from Hartmut Stadie on February 10, 2014 at 12:58pm (CST).
 - These corrections reportedly come from the global tags START53.V27 (MC) and FT53.V21A.AN6 (DATA).
 - These global tags were populated by Summer13.V4 corrections.
- See PDF for Summer13.V4 for further comments.

L2Relative Payloads:

	MC	DATA	#payloads
PF	Legacy11.V1.MC.L2Relative.AK5PF.txt Legacy11.V1.MC.L2Relative.AK7PF.txt	copy of MC	4
PFchs	Legacy11.V1.MC.L2Relative.AK5PFchs.txt Legacy11.V1.MC.L2Relative.AK7PFchs.txt	copy of MC	4
Calo	Legacy11.V1.MC.L2Relative.AK5Calo.txt Legacy11.V1.MC.L2Relative.AK7Calo.txt	copy of MC	4
JPT	Legacy11.V1.MC.L2Relative.AK5JPT.txt Legacy11.V1.MC.L2Relative.AK7JPT.txt	copy of MC	4

L3Absolute Payloads:

	MC	DATA	#payloads
PF	Legacy11.V1.MC.L3Absolute.AK5PF.txt Legacy11.V1.MC.L3Absolute.AK7PF.txt	copy of MC	4
PFchs	Legacy11.V1.MC.L3Absolute.AK5PFchs.txt Legacy11.V1.MC.L3Absolute.AK7PFchs.txt	copy of MC	4
Calo	Legacy11.V1.MC.L3Absolute.AK5Calo.txt Legacy11.V1.MC.L3Absolute.AK7Calo.txt	copy of MC	4
JPT	Legacy11.V1.MC.L3Absolute.AK5JPT.txt Legacy11.V1.MC.L3Absolute.AK7JPT.txt	copy of MC	4

Total L2 : 16 payloads

Total L3 : 16 payloads. All return a correction factor of one

L2L3Residual Payloads

- The DATA L2L3Residual payloads were taken from 2011Legacy.tgz, which was sent by email from Hartmut Stadie on February 10, 2014 at 12:58pm (CST).
 - These corrections reportedly come from the global tag FT44_V11_AN1 (DATA) as well as some hand-made corrections for $\eta \sim 2.5$.
 - This global tag is mapped from FT_R_44_V11 and has JEC11_V3 corrections inside. See link for more details.
- The MC L2L3Residual payloads are now set to a flat multiplicative scale factor of 1 so that they have no effect.
 - This is the same method used by the L3Absolute corrections.
 - This is as opposed to removing any MC residual correction and causing the user's jobs to fail.

	MC	DATA	#payloads
PF	Legacy11.V1.MC.L2L3Residual_AK5PF.txt Legacy11.V1.MC.L2L3Residual_AK7PF.txt	Legacy11.V1.DATA.L2L3Residual_AK5PF.txt Legacy11.V1.DATA.L2L3Residual_AK7PF.txt	4
PFchs	copy of Legacy11.V1.MC.L2L3Residual_AK5PF.txt copy of Legacy11.V1.MC.L2L3Residual_AK7PF.txt	copy of Legacy11.V1.DATA.L2L3Residual_AK5PF.txt copy of Legacy11.V1.DATA.L2L3Residual_AK7PF.txt	4
Calo	Legacy11.V1.MC.L2L3Residual_AK5Calo.txt Legacy11.V1.MC.L2L3Residual_AK7Calo.txt	Legacy11.V1.DATA.L2L3Residual_AK5Calo.txt Legacy11.V1.DATA.L2L3Residual_AK7Calo.txt	4
JPT	Legacy11.V1.MC.L2L3Residual_AK5JPT.txt Legacy11.V1.MC.L2L3Residual_AK7JPT.txt	Legacy11.V1.DATA.L2L3Residual_AK5JPT.txt Legacy11.V1.DATA.L2L3Residual_AK7JPT.txt	4

Total L2L3Residuals : 16 payloads.

L5Flavor MC-Truth Payloads

- The L5Flavor payloads were taken from 2011Legacy.tgz, which was sent by email from Hartmut Stadie on February 10, 2014 at 12:58pm (CST).
 - In reality, due to the way the payloads are read out from a global tag, these files were taken from the original Summer12_V4 files and confirmed to contain the same constants.

	MC	DATA	#payloads
PF	Summer13.V1.MC.L5Flavor_AK5PF.txt	copy of MC	4
	Summer13.V1.MC.L5Flavor_AK7PF.txt		
PFchs	Summer13.V1.MC.L5Flavor_AK5PFchs.txt	copy of MC	4
	Summer13.V1.MC.L5Flavor_AK7PFchs.txt		
Calo	Summer13.V1.MC.L5Flavor_AK5Calo.txt	copy of MC	4
	Summer13.V1.MC.L5Flavor_AK7Calo.txt		
JPT	Summer13.V1.MC.L5Flavor_AK5JPT.txt	copy of MC	4
	Summer13.V1.MC.L5Flavor_AK7JPT.txt		

Total L5Flavor : 16 payloads.

Uncertainty Payloads

- The uncertainty payloads taken from an email sent by Hartmut Stadie on February 24, 2014 at 8:09am (CST).
 - This email contained uncertainties for Anti-kT PF, PFchs, and Calo jets with $R = \{5, 7\}$.
 - JPT uncertainties taken from email sent by Hartmut Stadie on February 24, 2014 at 8:09am (CST).
- The uncertainty source payloads were taken from 2011Legacy.tgz, which was sent by email from Hartmut Stadie on February 10, 2014 at 12:58pm (CST).
- UncertaintySources files cannot be (yet) uploaded to the DB. Those should be posted in the twiki.

Uncertainty Payloads:

	MC	DATA	#payloads
PF	Legacy11.V1.MC.Uncertainty_AK5PF.txt Legacy11.V1.MC.Uncertainty_AK7PF.txt	Legacy11.V1.DATA.Uncertainty_AK5PF.txt Legacy11.V1.DATA.Uncertainty_AK7PF.txt	4
PFchs	Legacy11.V1.MC.Uncertainty_AK5PFchs.txt Legacy11.V1.MC.Uncertainty_AK7PFchs.txt	Legacy11.V1.DATA.Uncertainty_AK5PFchs.txt Legacy11.V1.DATA.Uncertainty_AK7PFchs.txt	4
Calo	Legacy11.V1.MC.Uncertainty_AK5Calo.txt Legacy11.V1.MC.Uncertainty_AK7Calo.txt	Legacy11.V1.DATA.Uncertainty_AK5Calo.txt Legacy11.V1.DATA.Uncertainty_AK7Calo.txt	4
JPT	GR_R_42_V23.Uncertainty_AK5JPT.txt copy of AK5JPT	copy of MC	4

Uncertainty Source Payloads:

	MC	DATA	#payloads
PF	N/A	Legacy11.V1.DATA.UncertaintySources_AK5PF.txt Legacy11.V1.DATA.UncertaintySources_AK7PF.txt	2
PFchs	N/A	Legacy11.V1.DATA.UncertaintySources_AK5PFchs.txt Legacy11.V1.DATA.UncertaintySources_AK7PFchs.txt	2

Total Uncertainty : 16 payloads

Uncertainty Sources : 4 files to be added to twiki

Payload counting

	MC	DATA	Subtotal
L1	12	12	24
L2	8	8	16
L3	8	8	16
L5	8	8	16
Res	8	8	16
Unc	8	8	16
TOTAL	52	52	104

Total Payloads in SQL file : 104 payloads
 Plus 4 UncertaintySources that should go on the twiki page.