

PUPPIRun2016BAK4PUPPIL2L3Corr < Sandbox < TWiki

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process.patJetCorrFactorsReapplyJEC = updatedPatJetCorrFactors.clone(
  src = cms.InputTag("slimmedJetsPuppi"),
  # levels = ['L1FastJet', 'L2Relative', 'L3Absolute', 'L2L3Residual'],
  levels = ['L2Relative', 'L3Absolute', 'L2L3Residual'],
  payload = 'AK4FPuppi'
#   payload = 'AK4PFchs' #FIXME: use PUPPI when available
)

# Type-1 correction
process.Type1CorrForNewJEC = cms.EDProducer("PATPFJetMETcorrInputProducer",
  src = cms.InputTag("slimmedJetsPuppiNewJEC"),
  jetCorrLabel = cms.InputTag("L3Absolute"),
  #jetCorrLabel = cms.InputTag("ak4PFCHSL2L3Corrector"), gives the same result
  jetCorrLabelRes = cms.InputTag("L2L3Residual"),
  # offsetCorrLabel = cms.InputTag("L1FastJet"),
  offsetCorrLabel = cms.InputTag("Uncorrected"),
  skipEM = cms.bool(True),
  skipEMfractionThreshold = cms.double(0.9),
  skipMuonSelection = cms.string('isGlobalMuon | isStandAloneMuon'),
  skipMuons = cms.bool(True),
  type1JetPtThreshold = cms.double(15.0)
)

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Event	Jet #	$\backslash(p_{T})$	$\backslash(\eta)$	Uncorrected $\backslash(p_{T})$	Recorrected $\backslash(p_{T})$ (using new JEC)	Smearred $\backslash(p_{T})$ (jet smearred after new JEC)	JEC uncertainty (%)
273503:25:29427971	#1	354.026	-3.13621	335.056	320.121	320.121	3.70528
	#2	199.407	-0.977914	178.398	203.472	203.472	0.685905
	#3	39.0708	-0.14673	35.0056	39.2836	39.2836	2.77559
	#4	25.9226	3.31986	21.8121	25.5571	25.5571	6.97682
Event		MET $\backslash(p_{T})$ (with Type-1)	MET $\backslash(\varphi)$	MET Uncorrected $\backslash(p_{T})$	Recorrected MET $\backslash(p_{T})$	Smearred MET $\backslash(p_{T})$	
273503:25:29427971		157.763	-2.81	135.125	95.0157	95.0157	

Event	Jet #	$\backslash(p_{T})$	$\backslash(\eta)$	Uncorrected $\backslash(p_{T})$	Recorrected $\backslash(p_{T})$ (using new JEC)	Smearred $\backslash(p_{T})$ (jet smearred after new JEC)	JEC uncertainty (%)
273503:25:29006340	#1	167.882	2.80019	150.876	185.988	185.988	1.71007
	#2	117.318	-0.264267	107.735	118.966	118.966	1.04282
	#3	96.6721	0.751217	87.8458	98.9002	98.9002	1.2436
	#4	28.2138	-0.143391	24.8506	28.3675	28.3675	3.57468
Event		MET $\backslash(p_{T})$ (with Type-1)	MET $\backslash(\varphi)$	MET Uncorrected $\backslash(p_{T})$	Recorrected MET $\backslash(p_{T})$	Smearred MET $\backslash(p_{T})$	
273503:25:29006340		38.1932	0.0442183	45.1812	29.1259	29.1259	

Event	Jet #	$\backslash(p_{T})$	$\backslash(\eta)$	Uncorrected $\backslash(p_{T})$	Recorrected $\backslash(p_{T})$ (using new JEC)	Smearred $\backslash(p_{T})$ (jet smearred)	JEC uncertainty (%)
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						after new JEC)	
273503:25:28508681	#1	183.797	-1.19832	159.918	187.762	187.762	0.716397
	#2	118.855	1.78915	94.4876	119.847	119.847	1.0645
	#3	86.0854	-0.677694	78.4122	88.0796	88.0796	1.38788
	#4	64.0423	-0.97036	56.3777	65.3925	65.3925	1.86219
	#5	35.2256	-0.749515	30.7929	36.0574	36.0574	2.99089
	#6	31.4272	1.76901	23.7999	31.6721	31.6721	3.59394
	#7	30.7327	0.00376815	27.2795	30.9001	30.9001	3.36799
	#8	15.9109	-0.680393	13.3606	16.2867	16.2867	5.21475
Event		MET $\backslash(p_T)$ (with Type-1)	MET $\backslash(\varphi)$	MET Uncorrected $\backslash(p_T)$	Recorrected MET $\backslash(p_T)$	Smearred MET $\backslash(p_T)$	
273503:25:28508681		13.4837	-1.19319	20.1905	26.2633	26.2633	

Event	Jet #	$\backslash(p_T)$	$\backslash(\eta)$	Uncorrected $\backslash(p_T)$	Recorrected $\backslash(p_T)$ (using new JEC)	Smearred $\backslash(p_T)$ (jet smearred after new JEC)	JEC uncertainty (%)
273503:25:28486230	#1	525.837	-0.0563439	482.544	529.008	529.008	1.07217
	#2	495.649	-0.141568	453.47	498.631	498.631	1.03092
	#3	40.5866	1.45308	32.6211	40.6009	40.6009	2.79895
	#4	40.1026	-3.10904	31.1803	39.6414	39.6414	6.16434
	#5	31.8726	0.988233	27.2458	32.5475	32.5475	3.31054
Event		MET $\backslash(p_T)$ (with Type-1)	MET $\backslash(\varphi)$	MET Uncorrected $\backslash(p_T)$	Recorrected MET $\backslash(p_T)$	Smearred MET $\backslash(p_T)$	
273503:25:28486230		42.5753	-2.95359	38.6004	48.2945	48.2945	

Event	Jet #	$\backslash(p_T)$	$\backslash(\eta)$	Uncorrected $\backslash(p_T)$	Recorrected $\backslash(p_T)$ (using new JEC)	Smearred $\backslash(p_T)$ (jet smearred after new JEC)	JEC uncertainty (%)
273503:25:29116943	#1	381.307	0.364373	350.267	386.384	386.384	0.855206
	#2	175.126	-2.15919	142.732	177.316	177.316	0.74787
	#3	160.148	-0.698255	145.153	163.758	163.758	0.769279
	#4	56.4735	1.28077	47.4769	57.5565	57.5565	2.10819
	#5	47.369	1.78999	36.573	47.7381	47.7381	2.53513
	#6	29.3454	-0.0122081	25.9357	29.5052	29.5052	3.48082
Event		MET $\backslash(p_T)$ (with Type-1)	MET $\backslash(\varphi)$	MET Uncorrected $\backslash(p_T)$	Recorrected MET $\backslash(p_T)$	Smearred MET $\backslash(p_T)$	
273503:25:29116943		28.8649	2.88892	29.8117	58.138	58.138	

Event	Jet #	$\backslash(p_T)$	$\backslash(\eta)$	Uncorrected $\backslash(p_T)$	Recorrected $\backslash(p_T)$ (using new JEC)	Smearred $\backslash(p_T)$ (jet smearred	JEC uncertainty (%)
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						after new JEC)	
273503:25:28347971	#1	224.992	1.36499	192.343	225.88	225.88	0.675404
	#2	216.475	0.307107	199.744	219.434	219.434	0.675333
	#3	152.964	2.5541	132.821	159.007	159.007	0.851916
	#4	42.1748	0.41364	37.8726	42.7872	42.7872	2.60064
	#5	32.4488	1.72356	24.8106	32.7017	32.7017	3.49784
	#6	18.4079	3.09114	12.9752	18.1962	18.1962	8.0138
Event		MET \(p_T) (with Type-1)	MET \(\varphi)	MET Uncorrected \(p_T)	Recorrected MET \(\(p_T)	Smearred MET \(\(p_T)	
273503:25:28347971		41.2139	-0.205883	37.1513	33.2958	33.2958	

Event	Jet #	\(p_T)	\(\eta)	Uncorrected \(p_T)	Recorrected \(p_T) (using new JEC)	Smearred \(p_T) (jet smearred after new JEC)	JEC uncertainty (%)
273503:25:28430925	#1	109.58	1.20947	95.9121	111.829	111.829	1.14022
	#2	84.2695	-1.9563	66.9066	85.4465	85.4465	1.51228
	#3	49.3543	1.34809	40.7361	49.3717	49.3717	2.39032
	#4	27.815	2.33485	19.6967	28.9043	28.9043	4.33067
	#5	18.6232	-0.290448	15.9481	18.8936	18.8936	4.71724
	#6	16.7769	2.5761	10.537	17.6374	17.6374	6.87813
	#7	15.6394	2.28296	10.7265	15.9767	15.9767	7.34247
Event		MET \(p_T) (with Type-1)	MET \(\varphi)	MET Uncorrected \(p_T)	Recorrected MET \(\(p_T)	Smearred MET \(\(p_T)	
273503:25:28430925		35.0061	1.42291	22.5513	13.7448	13.7448	

Event	Jet #	\(p_T)	\(\eta)	Uncorrected \(p_T)	Recorrected \(p_T) (using new JEC)	Smearred \(p_T) (jet smearred after new JEC)	JEC uncertainty (%)
273503:25:28484508	#1	85.3078	-0.651466	77.6906	87.2848	87.2848	1.40032
	#2	84.3224	1.63881	69.0534	84.5743	84.5743	1.50305
Event		MET \(p_T) (with Type-1)	MET \(\varphi)	MET Uncorrected \(p_T)	Recorrected MET \(\(p_T)	Smearred MET \(\(p_T)	
273503:25:28484508		24.1062	1.34472	22.3683	19.4609	19.4609	

Event	Jet #	\(p_T)	\(\eta)	Uncorrected \(p_T)	Recorrected \(p_T) (using new JEC)	Smearred \(p_T) (jet smearred after new JEC)	JEC uncertainty (%)
273503:25:28697032	#1	195.902	2.59557	174.247	203.082	203.082	0.807862
	#2	190.555	-0.500751	173.799	193.174	193.174	0.699338

Event		MET $\backslash(p_T)$ (with Type-1)	MET $\backslash(\varphi)$	MET Uncorrected $\backslash(p_T)$	Recorrected MET $\backslash(p_T)$	Smeared MET $\backslash(p_T)$	
273503:25:28697032		5.04085	-1.43692	8.77983	1.35095	1.35095	

Event	Jet #	$\backslash(p_T)$	$\backslash(\eta)$	Uncorrected $\backslash(p_T)$	Recorrected $\backslash(p_T)$ (using new JEC)	Smeared $\backslash(p_T)$ (jet smeared after new JEC)	JEC uncertainty (%)
273503:25:28610644	#1	93.0163	3.31354	87.3435	90.6537	90.6537	3.42334
	#2	88.0687	1.16675	76.875	89.8371	89.8371	1.41095

Event		MET $\backslash(p_T)$ (with Type-1)	MET $\backslash(\varphi)$	MET Uncorrected $\backslash(p_T)$	Recorrected MET $\backslash(p_T)$	Smeared MET $\backslash(p_T)$	
273503:25:28610644		9.59196	1.87391	12.7469	20.5176	20.5176	

-- AnastasiaKaravdina - 2016-09-14

This topic: Sandbox > PUPPIRun2016BAK4PUPPIL2L3Corr

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