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# Validation of Reconstruction code

- List of Validation contacts for DPG and POG on Monte Carlo
- List of Validation contacts for Data certification
- Changes to the reconstruction software
- Documented for new features of the reconstruction

## Legend:

-  : Changes are expected, to be set according to software or condition changes prior to validation
-  : Validation done, result is "Not Validated". Report the reasons below
-  : Validation done, result is "Ok, Validated"
-  : Validation still in progress or results need to be followed up before final green/red light
-  : Validation not (yet) done

## Data in 3.11

Reports in this section are based on skims sample reprocessed as part of the release validation samples

Release	Tk	Ecal	Hcal	DT	CSC	RPC	Tracking	Electron	Photon	Muon	Jet	MET	BTag	Tau	PartFlow
pre1 relval failed, use pre2															
data in pre2				-				-	-		-	-	-	-	-
data in pre3				-				-	-				-	-	-
pre4 failed, use pre5															
data in pre5				-				-	-				-	-	-
data in 3_11_2	-	-	-	-		-	-	-	-		-	-	-	-	-
data in 3_11_3	-	-	-	-		-	-	-	-				-	-	-
3.11.0 high stat sample does not contain data															

## MC in 3.11

Release	Tk	Ecal	Hcal	DT	CSC	RPC	Tracking	Electron	Photon	Muon	Jet	MET	BTag	Tau	PartFlow
pre1 relval failed, use pre2															
mc in pre2										-			-	-	-
mc in pre3													-	-	-
pre4 failed, use pre5															
mc in pre5	-												-	-	
mc in 3_11_0							-							-	-
	-				-				-					-	-

mc in 3_11_1																
mc in 3_11_2	-	✓	⊗, ✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	-	-
mc in 3_11_3	-	✓	✓	✓	✓	-	✓	✓	-	✓	✓	-	✓	-	-	
template	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

### 3110pre5 details:

- 24-Jan-2011 (K. Kovitanggoon) Full sim:Time phase and Reco: 4TS->2TS so that the soft part of spectra (noise) and entire HF timing is changed. Fast sim:Better corresponds to the FullSim HF jets PT scale in pre5 than it was in pre3.
- 24-Jan-2011 (P. Janot) : The validation of PF revealed a problem with electrons (E resolution degradation), which was just identified as originating from a bug introduced in PFBlockAlgo. We will produce a fix and a new tag soon.
- 03-Feb-2011 (T. Cox): The gas-gain factor for ME1/1 chambers was reduced by 0.55 between 3\_11\_0\_pre5 and 3\_11\_0 so Landau charge peaks in ME1/1 are correspondingly lower (and now more closely match peaks in real muon data). Does not lead to any losses or inefficiencies in local reco, as expected.
- 15-Mar-2011 (T. Cox): The 3\_11\_1 sim relvals appeared in dev dqm gui so couldn't be compared to those for 3\_11\_0\_pre5 in offline dqm gui. But no code changes anyway. 3\_11\_2 compared to 3\_11\_0\_pre5 and those are fine.

### Relval in 3.11 64 bits

Release	Tk	Ecal	Hcal	DT	CSC	RPC	Tracking	Electron	Photon	Muon	Jet	MET	BTag	Tau	PartFlow
pre1	none														
pre2	none														
pre3	none														
pre4	none														
mc in pre5 64 bits	-	✓	✓	-	✓	✓	✓	✓	-	✓	✓	✓	✓	-	-
mc in 3_11_0, 64 bits	-	✓	✓	-	✓	✓	✓	✓	✓	-	✓	✓	-	-	-

### Relval in 3.11 with new root

Release	Tk	Ecal	Hcal	DT	CSC	RPC	Tracking	Electron	Photon	Muon	Jet	MET	BTag	Tau	PartFlow
pre1	none														
pre2	none														
pre3	none														
pre4	none														
mc in pre5 new root	-	mc: ✓	✓	-	-	✓	-	✓	-	-	-	-	-	-	-

- 04 Feb 2011 D. Chamont: no significant change in histograms, except a bug in the number of entries of profiles, which we can live with.
- 28-Jan-2011 (T. Cox); CMSSW\_3\_11\_0\_pre5r52706bT2 samples never appeared in dqm gui so no CSC validation possible.

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