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PAT Release Notes (compatible with *CMSSW_7_0_X*)

Legend:

- **NEW**: This recipe has been added recently.
- **UPDATED**: This recipe has been updated.
- **CLOSED**: This recipe is obsolete, e.g. due to removal of a topic branch after its integration. Please move to a more recent recipe.
- *(GREEN RELEASE NUMBER)*: CMSSW release, when a feature entered officially.
- *(BLUE RELEASE NUMBER)*: CMSSW release that can be considered as analysis release.

This is for *CMSSW_7_0_X* development.

⚠ If you are doing developments intended for *CMSSW_7_2_X*, please post in SWGuidePATReleaseNotes72X.

⚠ If you are doing developments intended for *CMSSW_5_3_X*, please post in SWGuidePATReleaseNotes52X.

Fix PFCand accessor **NEW**

- #4862 from @gpetruc: fix pat::Electron source PFCand accessor in miniAOD analysis
- #4833 from @jpavel: Changing input collection for tauGenJets in miniAOD analysis

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```
ssh lxplus.cern.ch
setenv SCRAM_ARCH slc6_amd64_gcc481
cmsrel CMSSW_7_0_7_patch1
cd CMSSW_7_0_7_patch1/src/
cmsenv
git cms-addpkg PhysicsTools/PatAlgos
scram b -j 20
```

Pileup weighted PF candidates **NEW**

- #4773 from @franzoni: premix_prod_wf_name operations
- #4581 from @tlampen: Backport of #4557. Improve offline validation for70 x alca
- #4768 from @mdhildreth: Put starting capId back to random to fix drop in number of digis in Hcal simulation
- #4605 from @wmtan: Allow option of reading of files with prior releases (for 7_0_X) core
- #4672 from @jpavel: Simplification of the tau quality cuts reconstruction
- #4642 from @fwyzard: add TSG Mixing flat 20-50 mixing scenario (50 ns) simulation
- #4486 from @cms-btv-pog: Fix for jet flavor lepton selection and possible out of range exception: Backport from 7_2_X to 7_0_X analysis
- #4508 from @jpavel: PU weighting (70x) analysis reconstruction
- #4330 from @cms-analysis-tools: input variables for photon regrssion energy correction analysis
- #4650 from @franzoni: new premix dataset in input operations

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```
ssh lxplus.cern.ch
setenv SCRAM_ARCH slc6_amd64_gcc481
cmsrel CMSSW_7_0_7
cd CMSSW_7_0_7/src/
cmsenv
git cms-addpkg PhysicsTools/PatAlgos
```

```
scram b -j 20
```

Tau update for miniAOD

- #4431 from @jpavel: fixed getters to be able to read from miniAOD analysis
- #4351 from @franzoni: Gf update premix input from cmssw 7 0 6 operations
- #4392 from @emiglior: New trees v1 cmssw 7 0 x analysis
- #4446 from @nclopezo: pat::Muon best track embedding fix (7.0.X) Copied from #4359 analysis
- for the updates in 7_0_6 with respect to 7_0_5_patch1, please refer to [here](#)
- #4330 is from cms-analysis-tools:7_0_5-photon.

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```
ssh lxplus.cern.ch
setenv SCRAM_ARCH slc6_amd64_gcc481
cmsrel CMSSW_7_0_6_patch1
cd CMSSW_7_0_6_patch1/src/
cmsenv
git cms-addpkg PhysicsTools/PatAlgos
git cms-merge-topic 4330
scram b -j 20
```

Allow for CA jets UPDATED

- Allow CA jets in the jetTools;
- Add test for ca8PFJetsCHSPruned
- fixed sigmaIetaIphi definition in cms-analysis-tools:7_0_5-photon branch (2014-06-20)

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```
ssh lxplus.cern.ch
setenv SCRAM_ARCH slc6_amd64_gcc481
cmsrel CMSSW_7_0_5_patch1
cd CMSSW_7_0_5_patch1/src/
cmsenv
git cms-addpkg PhysicsTools/PatAlgos
git cms-merge-topic cms-analysis-tools:7_0_5-photon
scram b -j 20
```

Add PF isolation to leptons

- Add access functions for PF isolation to pat::Photon;
- Add PF isolation to PAT leptons;
- Remove some obsolete integration tests.
- Add conversion safe electron veto function (passElectronVeto()) for photon ID using Conversion tool
- Add hasPixelSeed() for PAT photon to veto electron
- Add input variables for PAT photon regression energy correction

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```
ssh lxplus.cern.ch
setenv SCRAM_ARCH slc6_amd64_gcc481
cmsrel CMSSW_7_0_0
cd CMSSW_7_0_0/src/
cmsenv
git cms-addpkg PhysicsTools/PatAlgos
git cms-merge-topic cms-analysis-tools:7_0_0_pre12-photon
scram b -j 20
```

Fix Type-I corrected MET

- Determine Type-I MET correction without charged hadron subtraction.

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```
ssh lxplus.cern.ch
setenv SCRAM_ARCH slc6_amd64_gcc481
cmsrel CMSSW_7_0_0_pre11
cd CMSSW_7_0_0_pre11/src/
cmsenv
git cms-addpkg PhysicsTools/PatAlgos
scram b -j 20
```

Update selectors

- Update `PhysicsTools/SelectorUtils` to the formerly not integrated CVS tag V00-03-34 (forward port from here):
 - ◆ Update of muon and vertex selectors to 2012 recommendations;
 - ◆ Bug fix in electron selector.

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```
ssh lxplus.cern.ch
setenv SCRAM_ARCH slc6_amd64_gcc481
cmsrel CMSSW_7_0_0_pre10
cd CMSSW_7_0_0_pre10/src/
cmsenv
git cms-addpkg PhysicsTools/PatAlgos
scram b -j 20
```

Add MVA electron ID

- Forward port from `CMSSW_5_3_X`.

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```
ssh lxplus.cern.ch
setenv SCRAM_ARCH slc6_amd64_gcc481
cmsrel CMSSW_7_0_0_pre9
cd CMSSW_7_0_0_pre9/src/
cmsenv
git cms-addpkg PhysicsTools/PatAlgos
git cms-merge-topic cms-analysis-tools:7_0_0_pre9-addMVAElectronID
cd EgammaAnalysis/ElectronTools/data
cat download.url | xargs wget
cd -
scram b -j 20
```

Use PFJets as default

- Switch to `ak5PFJetSCHS` as default input jet collection.
- Switch to 70X RelVal input.
- Minor fixes in jet tools.

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```
ssh lxplus.cern.ch
setenv SCRAM_ARCH slc6_amd64_gcc481
cmsrel CMSSW_7_0_0_pre9
cd CMSSW_7_0_0_pre9/src/
cmsenv
```

```
git cms-addpkg PhysicsTools/PatAlgos  
scram b -j 20
```

-- VolkerAdler - 20 Nov 2013

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