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PAT Release Notes (compatible with CMSSW_3_10_X)

Please follow the tag conventions here:

Package	Tag
DataFormats/PatCandidates	V06-02-zz
CMS.PhysicsTools/PatAlgos	V08-04-zz
CMS.PhysicsTools/PatUtils	V03-09-zz
CMS.PhysicsTools/PatExamples	V00-05-zz
CMS.PhysicsTools/Utilities	V07-02-zz

If you are doing developments intended for 39X, please post in SWGuidePATReleaseNotes39X. This is for HEAD development.

V08-04-08

- Removed PFTau sequence, which is not needed together with 395 test file to facilitate PF2PAT repair for PF2PAT colleagues.
- Fix to allow unnamed *PSets* in *VPSets* in GuiBrowsers package (already integrated in the release series).
- Removed cyclic dependency from *CMS.PhysicsTools/FWLite* and *CMS.PhysicsTools/UtilAlgos*
- Added new Helper classes in *DataFormats/FWLite* for use of *FWLite* with *crab*. Adapted the examples to the slightly new *python* cfg file structure.

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```
ssh lxplus.cern.ch
cmsrel CMSSW_3_10_X_2011-01-08-1300
cd CMSSW_3_10_X_2011-01-08-1300/src
cmsenv
addpkg RecoTauTag/Configuration V01-00-14
addpkg DataFormats/PatCandidates V06-02-18
addpkg PhysicsTools/PatAlgos V08-04-08
addpkg PhysicsTools/PatUtils V03-09-17
addpkg DataFormats/FWLite V01-11-04
addpkg PhysicsTools/FWLite V02-03-10
addpkg PhysicsTools/UtilAlgos V08-02-06
scram b -j 9
```

V08-04-07

- Added new discriminators to *tauTools.py*.
- Needs new tag for *_RecoTauTag/Configuration* (not yet included in CMSSW_3_10_0_pre8).

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```
ssh lxplus.cern.ch
cmsrel CMSSW_3_10_X_2010-12-18-0200
cd CMSSW_3_10_X_2010-12-18-0200/src
cmsenv
addpkg CondFormats/JetMETObjects V03-01-14
addpkg DataFormats/PatCandidates V06-02-17
addpkg JetMETCorrections/Algorithms V02-01-02
addpkg JetMETCorrections/Modules V05-00-14
addpkg PhysicsTools/JetMCAlgos V00-13-10
addpkg PhysicsTools/PFCandProducer V04-07-00
addpkg PhysicsTools/PatAlgos V08-04-07
addpkg PhysicsTools/PatExamples V00-05-01
```

```
addpkg PhysicsTools/PatUtils          V03-09-17
addpkg PhysicsTools/PythonAnalysis    V00-05-01
addpkg PhysicsTools/SelectorUtils     V00-03-03
addpkg PhysicsTools/UtilAlgos         V08-02-04
addpkg RecoTauTag/Configuration       V01-00-14
addpkg PhysicsTools/Utilities         V08-01-02
scram b -j 9
```

V08-04-06

- Removed *L2L3Residual* from default configuration to be consistent for the use with MC.
- Added *coreTool runOnData* consistently to remove MC Matching and to add *L2L3Residual* correction to run on data.
- Removed embedding of *tagInfos* from default configuration.

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```
ssh lxplus.cern.ch
cmsrel CMSSW_3_10_0_pre9
cd CMSSW_3_10_0_pre9/src
cmsenv
addpkg CondFormats/JetMETObjects      V03-01-14
addpkg DataFormats/PatCandidates      V06-02-17
addpkg JetMETCorrections/Algorithms   V02-01-02
addpkg JetMETCorrections/Modules      V05-00-14
addpkg PhysicsTools/IsolationAlgos    V01-05-07
addpkg PhysicsTools/JetMCAlgos        V00-13-10
addpkg PhysicsTools/PFCandProducer    V04-07-00
addpkg PhysicsTools/PatAlgos          V08-04-06
addpkg PhysicsTools/PatExamples       V00-05-01
addpkg PhysicsTools/PatUtils          V03-09-17
addpkg PhysicsTools/PythonAnalysis    V00-05-01
addpkg PhysicsTools/SelectorUtils     V00-03-03
addpkg PhysicsTools/UtilAlgos         V08-02-04
addpkg PhysicsTools/Utilities         V08-01-02
scram b -j 9
```

On later IB's

```
ssh lxplus.cern.ch
cmsrel CMSSW_3_10_X_2010-12-18-0200
cd CMSSW_3_10_X_2010-12-18-0200/src
cmsenv
addpkg CondFormats/JetMETObjects      V03-01-14
addpkg DataFormats/PatCandidates      V06-02-17
addpkg JetMETCorrections/Algorithms   V02-01-02
addpkg JetMETCorrections/Modules      V05-00-14
addpkg PhysicsTools/JetMCAlgos        V00-13-10
addpkg PhysicsTools/PFCandProducer    V04-07-00
addpkg PhysicsTools/PatAlgos          V08-04-06
addpkg PhysicsTools/PatExamples       V00-05-01
addpkg PhysicsTools/PatUtils          V03-09-17
addpkg PhysicsTools/PythonAnalysis    V00-05-01
addpkg PhysicsTools/SelectorUtils     V00-03-03
addpkg PhysicsTools/UtilAlgos         V08-02-04
addpkg PhysicsTools/Utilities         V08-01-02
scram b -j 9
```

V08-04-05

- Added support for user isolation value to `pat::PATElectronProducer`.

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V08-04-07

```
ssh lxplus.cern.ch
cmsrel CMSSW_3_10_0_pre8
cd CMSSW_3_10_0_pre8/src
cmsenv
addpkg CondFormats/JetMETObjects      V03-01-14
addpkg DataFormats/HLTReco            V02-05-02
addpkg DataFormats/PatCandidates      V06-02-17
addpkg JetMETCorrections/Algorithms   V02-01-02
addpkg JetMETCorrections/Modules      V05-00-14
addpkg PhysicsTools/IsolationAlgos    V01-05-07
addpkg PhysicsTools/JetMCAlgos        V00-13-10
addpkg PhysicsTools/PFCandProducer    V04-07-00
addpkg PhysicsTools/PatAlgos          V08-04-05
addpkg PhysicsTools/PatExamples       V00-05-01
addpkg PhysicsTools/PatUtils          V03-09-17
addpkg PhysicsTools/PythonAnalysis    V00-05-01
addpkg PhysicsTools/SelectorUtils     V00-03-03
addpkg PhysicsTools/UtilAlgos         V08-02-04
addpkg PhysicsTools/Utilities         V08-01-02
scram b -j 9
```

V08-04-04

- PAT trigger information:
 - ◆ Switching the PAT trigger matching to the use of the StringCutObjectSelector.
- Compiler warnings fixed in *DataFormats/PatCandidates*

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```
ssh lxplus.cern.ch
cmsrel CMSSW_3_10_0_pre8
cd CMSSW_3_10_0_pre8/src
cmsenv
addpkg CondFormats/JetMETObjects      V03-01-14
addpkg DataFormats/HLTReco            V02-05-02
addpkg DataFormats/PatCandidates      V06-02-17
addpkg JetMETCorrections/Algorithms   V02-01-02
addpkg JetMETCorrections/Modules      V05-00-14
addpkg PhysicsTools/IsolationAlgos    V01-05-07
addpkg PhysicsTools/JetMCAlgos        V00-13-10
addpkg PhysicsTools/PFCandProducer    V04-07-00
addpkg PhysicsTools/PatAlgos          V08-04-04
addpkg PhysicsTools/PatExamples       V00-05-01
addpkg PhysicsTools/PatUtils          V03-09-17
addpkg PhysicsTools/PythonAnalysis    V00-05-01
addpkg PhysicsTools/SelectorUtils     V00-03-03
addpkg PhysicsTools/UtilAlgos         V08-02-04
addpkg PhysicsTools/Utilities         V08-01-02
scram b -j 9
```

V08-04-03

- New tool `pickRelValInputFiles()` in `python/tools/cmsswVersionTools.py` for automatic RelVal input file pick-up to be used in the *PoolSource* filenames parameter.
- Temporary fix for accessing the new JECs also in the 310X CMS.GlobalTag series.

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```
ssh lxplus.cern.ch
cmsrel CMSSW_3_10_0_pre8
cd CMSSW_3_10_0_pre8/src
cmsenv
addpkg CondFormats/JetMETObjects      V03-01-14
addpkg DataFormats/PatCandidates      V06-02-08
addpkg JetMETCorrections/Algorithms   V02-01-02
```

V08-04-05

```

addpkg JetMETCorrections/Modules V05-00-14
addpkg PhysicsTools/IsolationAlgos V01-05-07
addpkg PhysicsTools/JetMCAlgos V00-13-10
addpkg PhysicsTools/PFCandProducer V04-07-00
addpkg PhysicsTools/PatAlgos V08-04-03
addpkg PhysicsTools/PatExamples V00-05-01
addpkg PhysicsTools/PythonAnalysis V00-05-01
addpkg PhysicsTools/SelectorUtils V00-03-03
addpkg PhysicsTools/UtilAlgos V08-02-04
addpkg PhysicsTools/Utilities V08-01-02
scram b -j 9
    
```

V08-04-00

- Port from *V08-02-03* .
- PAT trigger information:
 - ◆ automated the `switchOnTriggerMatchEmbedding` Python tool completely, no module imports anymore.

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```

ssh lxplus.cern.ch
cmsrel CMSSW_3_10_X_2010-11-30-1400
cd CMSSW_3_10_X_2010-11-30-1400/src
cmsenv
addpkg CondFormats/JetMETObjects V03-01-14
addpkg DataFormats/PatCandidates V06-02-08
addpkg DataFormats/TauReco V01-00-02
addpkg JetMETCorrections/Algorithms V02-01-02
addpkg JetMETCorrections/Modules V05-00-14
addpkg PhysicsTools/IsolationAlgos V01-05-07
addpkg PhysicsTools/JetMCAlgos V00-13-10
addpkg PhysicsTools/PFCandProducer V04-07-00
addpkg PhysicsTools/PatAlgos V08-04-00
addpkg PhysicsTools/PatExamples V00-04-26
addpkg PhysicsTools/PythonAnalysis V00-05-01
addpkg PhysicsTools/SelectorUtils V00-03-03
addpkg PhysicsTools/UtilAlgos V08-02-04
addpkg PhysicsTools/Utilities V08-01-02
addpkg RecoTauTag/Configuration V01-00-11
addpkg RecoTauTag/RecoTau V01-00-19
addpkg RecoTauTag/TauTagTools V01-00-03
scram b -j 9
    
```

-- RogerWolf - 03-Dec-2010

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