

- There is a "fast" and a "full" version of the ROOT files for the reconstruction:

- ◆ "fast" contains all reconstructed hits, cluster and tracks

◇ ROOT files with all parameters from the reconstruction are here:

`/eos/experiment/wa105/offline/LArSoft/MC/MC*/ROOT/recofast/`

◇ A PDF explaining all parameters inside the ROOT files can be found here:

- MC3, MC4 and MC5:

https://www.dropbox.com/s/mz6tw9jkq68e9ra/311RootParser_RecoFast.pdf?dl=0

- MC6 and later:

https://www.dropbox.com/s/iy5z6g7rj0u7lgs/311RootParser_RecoFast.pdf?dl=0

◇ An example ROOT script to run over the ROOT files, including loops over files, events, hits and tracks, can be found here:

`/eos/experiment/wa105/offline/LArSoft/MC/AnalysisExamples/recofast/RecoFastAnalysisExample.C`

Copy it to you AFS workspace and run it with e.g.:

```
root -l 'RecoFastAnalysisExample.C(10, "MC5")'
```

The first argument gives the number of files to loop over and the second arguments gives the Monte Carlo sample version. This script writes some example histograms to the output file: `RecoFastAnalysisExampleHistograms_MC5.root`

- ◆ "full" contains all reconstructed hits, cluster and tracks as well as all noise filtered waveorms

◇ ROOT files with all parameters from the reconstruction and noise filtered waveforms are here:

`/eos/experiment/wa105/offline/LArSoft/MC/MC*/ROOT/recofull/`

◇ A PDF explaining all parameters inside the ROOT files can be found here:

- MC3, MC4 and MC5:

https://www.dropbox.com/s/lumv7iovcvbt5wf/311RootParser_RecoFull.pdf?dl=0

- MC6 and later:

https://www.dropbox.com/s/o67chjvd5ortwjh/311RootParser_RecoFull.pdf?dl=0

◇ An example ROOT script to run over the ROOT files, including loops over files, events, hits, tracks and noise filtered waveforms, can be found here:

`/eos/experiment/wa105/offline/LArSoft/MC/Analysis/recofull/RecoFullAnalysisExample.C`

Copy it to you AFS workspace and run it with e.g.:

```
root -l 'RecoFullAnalysisExample.C(10, "MC5")'
```

The first argument gives the number of files to loop over and the second arguments gives the Monte Carlo sample version. This script writes some example histograms to the output file: `RecoFullAnalysisExampleHistograms_MC5.root`

- Reconstured files in LArSoft format are here:

`/eos/experiment/wa105/offline/LArSoft/MC/MC*/LArSoft/reco/`

- The LArSoft configuration file for the reconstruction (.fcl) can be found here:

RecoMCSamples3x1x1 < Sandbox < TWiki

/eos/experiment/wa105/offline/LArSoft/MC/MC*/LArSoft/3x1x1dp_MC*_reco.fcl

-- Wa105OfflineService - 2018-06-13

This topic: Sandbox > RecoMCSamples3x1x1

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