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# 7.1 Introduction to Higher-Level Object Analysis Tutorials

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Detailed Review status

This chapter describes the details of the objects associated with physics analyses such as electrons, photons, muons, missing transverse energy (MET) and jets; heavy-quarks, taus. These objects are available in the standard AOD data samples. They are produced using a wide variety of sophisticated reconstruction algorithms which are described in detail in the Offline Guide.

- Track Reconstruction and Analysis - shows the available methods for accessing and analyzing the reconstructed tracks, and discusses more advanced operations involving tracks (refitting, accessing track trajectory at different points, etc.).
- Vertex Reconstruction - describes
  - ◆ how to access and analyze the primary vertices,
  - ◆ how to find and fit vertices by a user in his analysis code.
- Electron Analysis - shows some simple code for basic analysis of electrons, and contains links for further electron analysis and reco instructions.
- Photon Analysis - shows some simple code for basic analysis of photons, and contains links for further photon analysis and reco instructions.
- Jet Reconstruction is a more complex process and documentation is provided for both Jet object reconstruction.
- MET Analysis - describes MET objects in RECO/AOD/PAT, MET Corrections Type-0/1/2, MET Filters, MET Uncertainties, and other information relevant for MET analyses.
- Global Muon Reconstruction is a process by which muon tracks are reconstructed using information coming from both the muon spectrometer and the tracker detector.
- Finally, three Workbook sections, B tagging tau tagging and Particle-Flow tau jet tagging describe how to analyse jets and other composite objects which can be identified as originating from a b quark or a tau lepton.

## Review status

Reviewer/Editor and Date (copy from screen)	Comments
CMSUserSupport - 08 Jan 2008	restructuring the chapter
JennyWilliams - 16 Oct 2007	added tau pf tagging page info
JennyWilliams - 08 Oct 2007	provided most of page content

Responsible: SudhirMalik

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