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# Top Quark Analysis Software

Complete: 

## Goal

The goal of this page is to describe the specific software that is used in analyses done in the Top Physics Analysis Group (TopPAG). The main group page concerned with the organization of the group can be found is [CMS.TWikiTopQuark](#).

## Top Quark Analysis Framework (TQAF)

To facilitate access to objects and tools used in the analysis of top quarks the TopPAG provides a common Top Quark Analysis Framework ( TQAF) based on PAT objects. The code resides in the [CMSSW/TopQuarkAnalysis](#) system of CMSSW. It comprises several packages to facilitate the analysis reconstruction and interpretation of events containing top antitop quarks. To find out more about the TQAF have a look to the [SWGGuideTQAF](#) page.

Instructions on how to get started using the TQAF can be found on the [SWGGuideTQAF#HowTo](#). Several PAG specific tutorials exist in the meantime on the CMS [indico](#). To find out more about the Physics Analysis Toolkit (PAT) on which the TQAF relies have a look to the [SWGGuidePAT](#).

## Practical information and some PAT Examples

- Running on first data:
  - ◆ [WorkBookPATOnData](#) (tutorial)
  - ◆ [Collisions2010Analysis](#) (most up-to-date information)
- In case you would like to use PAT Object Selectors :
  - ◆ [SWGGuidePATSelectors](#) (General overview)
  - ◆ [Tutorial for using Selectors in FWLite](#)
  - ◆ [High-level example of doing a V+Jets Selection](#)

## Validation

## Useful Links

- [TopPAG](#)
- [Top Quark Analysys Framework \(TQAF\)](#)
- [Top Trigger Subgroup \(TSG\)](#).

## Contacts

- **Group home page:** [Top PAG home page](#)
- **Conveners:** Roberto Chierici and Roberto Tenchini
- **Hypernews forum:**
  - ◆ General: <https://hypernews.cern.ch/HyperNews/CMS/get/top.html>
- **TQAF contacts:** Luke Kreczko, Volker Adler