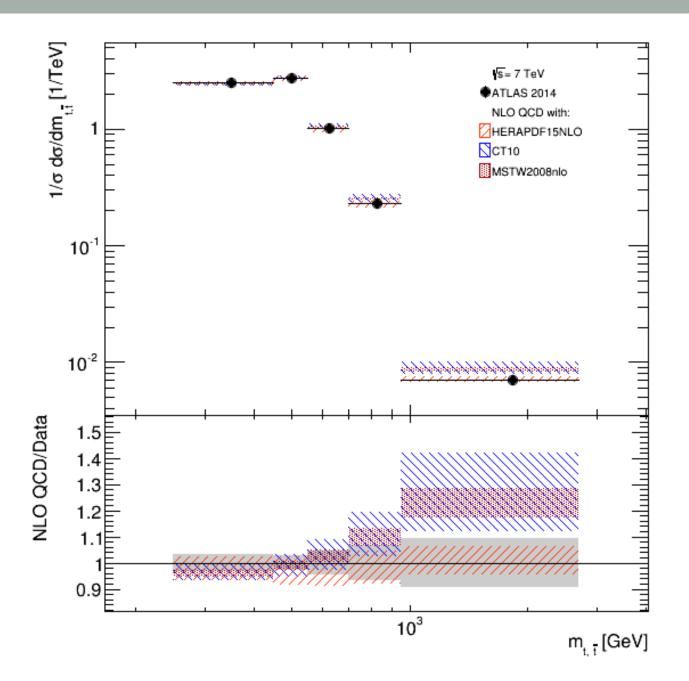
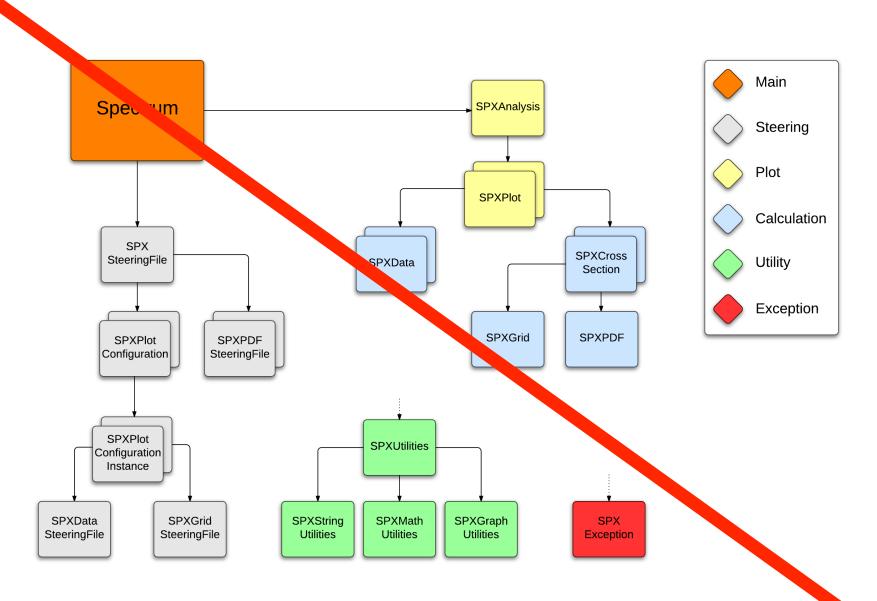
SPECTRUM

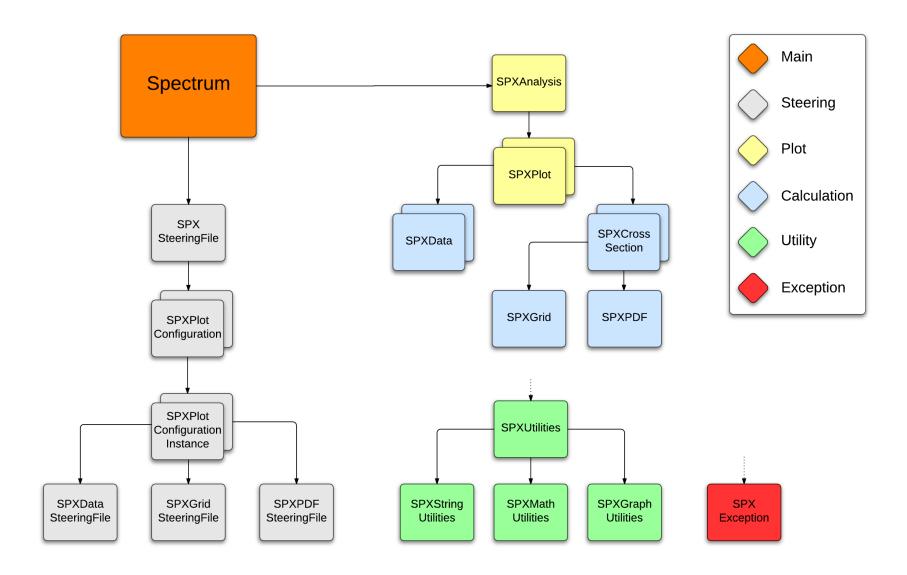
CERN – ATLAS Research Semester: Fall '14 Joe Gibson, Computer Engineering Grand Valley State University



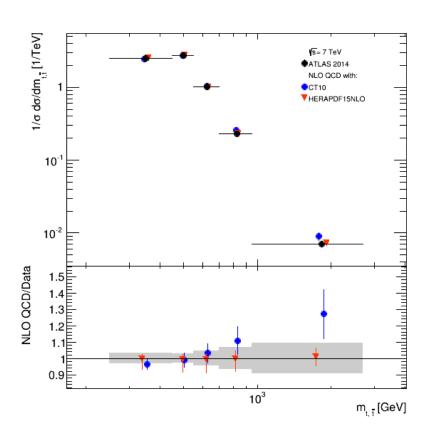
Experimental Data

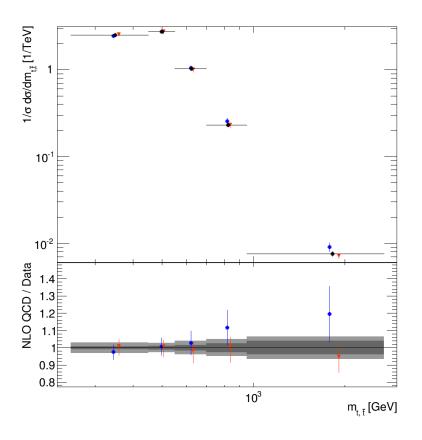
- Data formats
 - Spectrum T1S
 - Spectrum T1A
 - Spectrum T2S
 - Spectrum T2A
 - Spectrum T3S
 - Spectrum T3A
 - HERAFitter
- Systematic Errors
 - Symmetric or Asymmetric (S/A)
 - Total or Total + Individual (T1/T2)
 - Individual Systematic Errors (T3)
 - Explicit (HERAFitter)

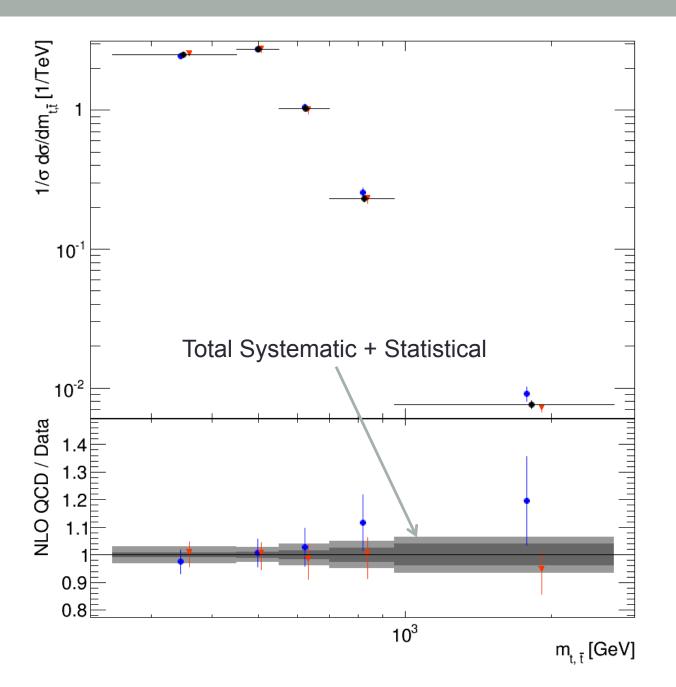




Spectrum Plots







Test Website (Plot)

 http://hep-project-applgrid.web.cern.ch/hep-projectapplgrid/spectrum/spectrum.php

Test Website (UI)

http://spectrum.web.cern.ch/spectrum/

Spectrum Technologies

- C++
- Python
- JavaScript
- HTML
- CSS
- PHP
- CGI

- AJAX
- CherryPy
- jQuery
- REST
- Pure
- Bootstrap
- Node.js

HTML Forms

- HTML Forms
 - <form action="cgi-bin/script.py" method="POST">
- HTTP Requests (invented here at CERN...)

