

Lepton selection efficiencies

- athena 14.2.24
- ARATopQuarkAnalysis-00-00-74
- 200k ttbar events
(user.top.D3PD_rel14050006_MC08.mc08.105200.T1_McAtNlo_Jimmy.recon.AOD.e357_s462_r541.20090119_GANGA)

• Electrons

- author: egamma (author = 1,3)
- quality: isEM Medium
- pt > 20 GeV
- $|\eta| < 2.5$
- $E_T (\Delta R < 0.20) < 6$ GeV

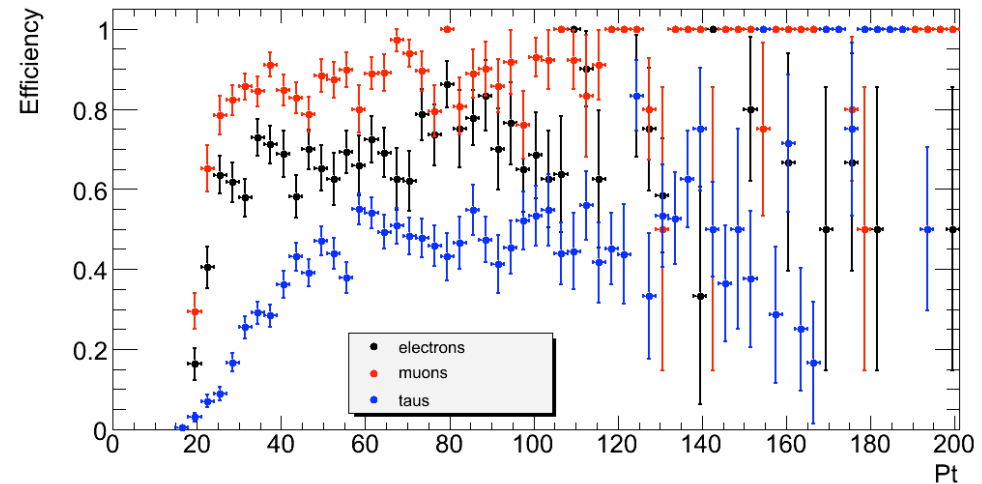
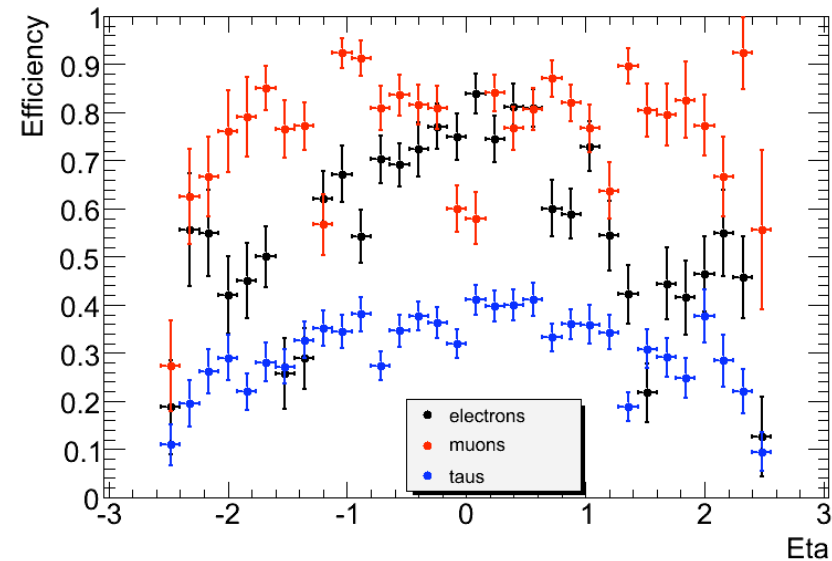
• Muons

- author: Staco Muon Collection
- quality: isCombinedMuon (bestMatch & isHighPt)
- pt > 20 GeV
- $|\eta| < 2.5$
- $E_T (\Delta R < 0.20) < 6$ GeV

• Taus

- pt > 20 GeV
- $|\eta| < 2.5$
- Overlap Removal

$$Eff = \frac{\text{reco events matched with truth}}{\text{truth events}}$$



Test with Ganga

- Athena 14.5.2
- ARATopQuarkAnalysis-00-00-74
- Ganga 5.1.8 IFIC

- Job size exception: Job Size exceed limits”
 - athena_compile = True
 - Submitted & aborted
 - athena_compile = false
 - “no entries for host: srm.cern.ch”
 - Default_SE = srmv2.ific.uv.es → submitted!

- **j.outputdata = ATLASOutputDataset()**

1. LocalOutputLocation=srm://lsrm.ific.uv.es/lustre/ific.uv.es/grid/atlas/scratch/users/tpge/ganga/
2. LocalOutputLocation=srm://srmv2.ific.uv.es/lustre/ific.uv.es/grid/atlas/scratch/users/tpge/ganga

» Failed & completed → ¿output?

```
lcg-cr --vo atlas -t 300 -d srm://lsrm.ific.uv.es/lustre/ific.uv.es/grid/atlas/scratch/users/tpge/31/  
ARATopQuarkAnalysis.root file:/var/spool/pbs/tmpdir/1673524.ce01.ific.uv.es/gangajob_zPlc5209/  
ARATopQuarkAnalysis.root  
file:/var/spool/pbs/tmpdir/1673524.ce01.ific.uv.es/gangajob_zPlc5209/ARATopQuarkAnalysis.root: No  
such file or directory  
lcg_cr: No such file or directory  
(stderr.gz)
```

3. LocalOutputLocation = /tmp/tpge/gangadir

```
lcg-cr --vo atlas -t 300 -d srm://lsrm.ific.uv.es/lustre/ific.uv.es/grid/atlas/scratch/users/tpge/38/  
D3PD_ARATopQuarkA  
nalysis.root file:/var/spool/pbs/tmpdir/1674425.ce01.ific.uv.es/gangajob_yhG12926/  
D3PD_ARATopQuarkAnalysis.root  
[SE][put] httpg://lsrm.ific.uv.es:8443/srm/managerv1: CGI-gSOAP: Could not open connection !
```

- **j.outputdata = DQ2OutputDataset()**

1. LCGOutputLocation=srm://lsrm.ific.uv.es/lustre/ific.uv.es/grid/atlas/scratch/users/tpge/ganga/
2. LCGOutputLocation=srm://srmv2.ific.uv.es/lustre/ific.uv.es/grid/atlas/scratch/users/tpge/ganga/

- Failed → ¿output?

- Raise NameError: ERROR: problems in output stage-out (stderr.gz)

3. LCGOutputLocation = /tmp/tpge/gangadir

- 1. COMPLETED!! Pero registrado en UAM-LCG2-USERDISK**