

<p>user08.MassimilianoBellomo.ganga.PythiaZmumu_1Lepton.e347_s462_r635_ewpa328  from mc08.106051.PythiaZmumu_1Lepton.recon.AOD.e347_s462_r635_tid046177</p>
<p>user08.MassimilianoBellomo.ganga.210.20090423  from mc08.109236.PythiaZtautau_2Leptons.recon.AOD.e379_s462_r635_tid046754</p>
<p>user08.MassimilianoBellomo.ganga.213.20090504  from mc08.105013.J4_pythia_jetjet.recon.AOD.e344_s479_r635/</p>
<p>user08.MassimilianoBellomo.ganga.217.20090507  from mc08.105200.T1_McAtNlo_Jimmy.recon.AOD.e357_s462_r635/</p>
<p>user08.MassimilianoBellomo.ganga.218.20090507  from mc08.106021.PythiaWmunu_1Lepton.recon.AOD.e352_s462_r635/</p>
<p>user08.MassimilianoBellomo.ganga.219.20090507  from mc08.106022.PythiaWtaunu_1Lepton.recon.AOD.e352_s462_r635/</p>
<p>user09.FabrizioPetrucci.PythiaB_bbmu15X.e388_atlfast_14_5_1_ewpa328  from user09.FabrizioPetrucci.mc08.108405.PythiaB_bbmu15X.AOD.recon.e388_tid042962</p>
<p>user09.FabrizioPetrucci.PythiaDrellYanLowM_mu2p5mu2p5.e359_s462_r635_ewpa328  from mc08.106005.PythiaDrellYanLowM_mu2p5mu2p5.recon.AOD.e359_s462_r635/</p>
<p>user08.MassimilianoBellomo.ganga.PythiaZtautau.e347_s462_r635_ewpa328.1  from mc08.106052.PythiaZtautau.recon.AOD.e347_s462_r635/</p>
<p>/castor/cern.ch/user/m/mbellomo/EWPA/SMWZ/Wmunu_500mu  from user08.mariannatesta.ganga.datafiles.misal.106021.PythiaWmunu_1Lepton.recon.AOD</p>
<p>/castor/cern.ch/user/m/mbellomo/EWPA/SMWZ/Zmumu_500mu  from user09.FulvioGaleazzi.PythiaZmumu_1Lepton.mc08.106051_misal.recon.AOD.e347_s462_r541_tid028727_misal_500u</p>

- Tool to make Tag&Probe efficiency 2D maps (EWRootAnalysis/TPEffiMaker)
  - ★ uses the TPTool information
  - ★ configurable for different steps
    - \* MSID, CBMS, CBISO, TRIGCBISO from DATA
    - \* MSMC, CBMC, CBISOMC, TRIGCBSIOMC from MC

```

TPEffiMaker_CBISO.StepName      = "CBISO"
TPEffiMaker_CBISO.TestLabel     = "StacoMuon"
TPEffiMaker_CBISO.TagLabel      = "StacoMuon"
TPEffiMaker_CBISO.ProbeLabel    = "MuonBoySAMuon"
TPEffiMaker_CBISO.ProbePtCut    = 15.0*GeV
TPEffiMaker_CBISO.ProbeEtaCut   = 2.5
TPEffiMaker_CBISO.dolsolation   = True
TPEffiMaker_CBISO.ConeSumNIDCut = 6
TPEffiMaker_CBISO.ConeSumPtIDCut = 5.0*GeV
TPEffiMaker_CBISO.ConeSumEtEMCut = 6.0*GeV
TPEffiMaker_CBISO.ConeEtJetCut  = 15.0*GeV
TPEffiMaker_CBISO.doTrigger     = False
TPEffiMaker_CBISO.doTriggerPt  = False
TPEffiMaker_CBISO.doMCEffi     = False
TPEffiMaker_CBISO.useCalo      = False
TPEffiMaker_CBISO.CaloLabel     = "CaloMuon"
TPEffiMaker_CBISO.RootFileName  = "EfficiencyMaps.root"

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- Set of ROOT macros to make final plots
  - ★ Structure of directory in EWBosonAnalysis/share
    - \* SinglePart/ : for single particle performances
    - \* Wmunu/ : for Wmunu analysis
    - \* Zmumu/ : for Zmumu analysis
- SinglePart/EffiPlotter.C
  - ★ to make 1D and 2D plots for efficiency for TPEffiMaker maps
    - \* merging macros from Claudio



- Updates macros of EWBosonAnalysis
  - ★ EffiPlotter in dev
- Adding WeightCalc to WmunuAnalyzer
- Developments for WeightCalc
  - ★ Adding configuration of steps, ...
- Developments for EWBosonAnalysis
  - ★ Now using ZmunuAnalyzer tool also in SM muon validation
  - ★ Need to reorganize output of tools to get a more modular schema
    - \* MuonValidator -> plots for single muon performances (eff, resol, scale, fake)
    - \* ZmunuAnalyzer -> plots for Zmumu analysis performances (cut-flow, invariant mass)
    - \* ( TriggerValidator -> plots for trigger rates )
    - \* ( KineAnalyzer -> plots for general kinematic distribution )
- Adding GeneratorInserter for ASCII event files (standalone generator as HORACE)
  - ★ done, to be tested
- **EWPA-00-03-29 ...**

# Action items



W,Z signal selections	Max, Claudio, Daniela, Tommaso
W,Z signal re-weighting with single particle efficiencies	Max, Claudio, Daniela
QCD background to W	Marianna, Matthias (?)
QCD background to Z	Max, Tommaso, Matthias (?)
EW background to W	Gabriella
EW background to Z	Tommaso
MET performance	Max U
trigger performance	Max + ?
muon performance	Max, Claudio
acceptances from MC generators (ISR, FSR, PDF, NLO corr.)	Silvia + ext from Rome2
momentum scale corrections	Fabrizio, Ada, Toni
single particle efficiencies determination from data	Max, Claudio
effect on mis-alignment, mis-calibration, mis-etc on W selection	Claudio, Fabrizio
effect on mis-alignment, mis-calibration, mis-etc on Z selection	Claudio, Fabrizio
effect of pile-up and cavern background on W selection	?
effect of pile-up and cavern background on Z selection	?
ATLFAST-II studies	?
D3PD productions	all
AOD production with mis-effects	Marianna, Fabrizio, Ada
ATLFAST-II productions	Ada
tools and checks for D3PD productions	Max, Gabriella
EWPA developments	Max, Claudio + ?
SM Muon validation	Max, Gabriella
Note editor	?

# Next meetings



- For each item a brief report for status/plans
- Next week (27/05) concentrate on **background studies on W,Z**
  - ★ Data available, main observables, first selection
  - ★ QCD Z (Max)
  - ★ QCD W (Marianna)
  - ★ EW Z (Tommaso)
  - ★ EW W (Gabriella)
- Next-to-next<sup>2</sup> week (10/05) [skipping 03/05]
  - ★ still on **background studies on W,Z**
  - ★ first draft of the note index ( who ?)
- Goal is to prepare a summary note BEFORE start of data taking
  - ★ to be finalized in coming months across summer