

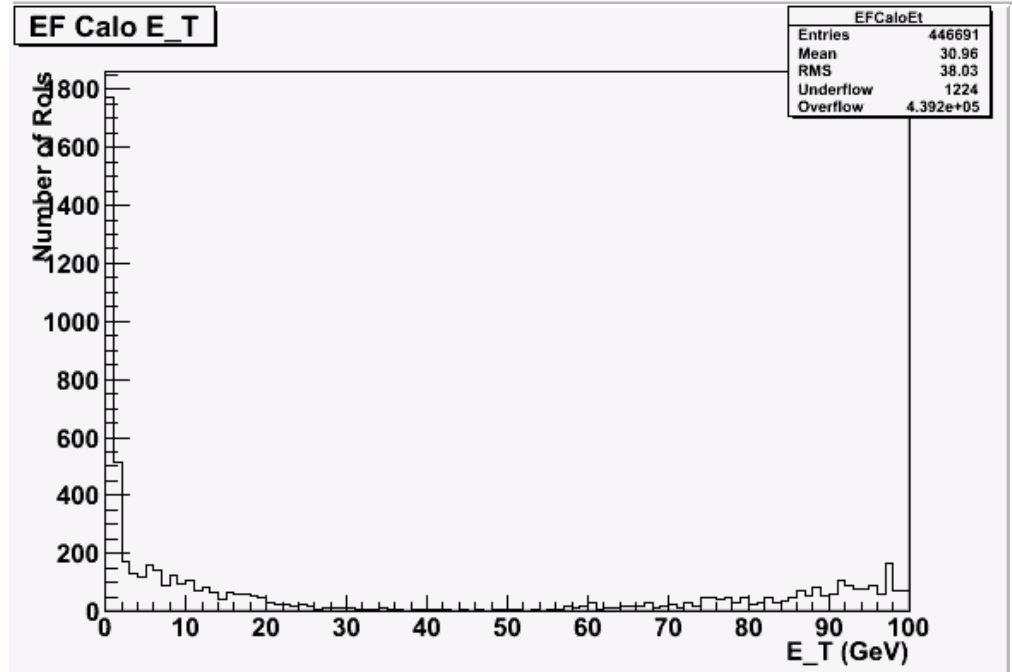
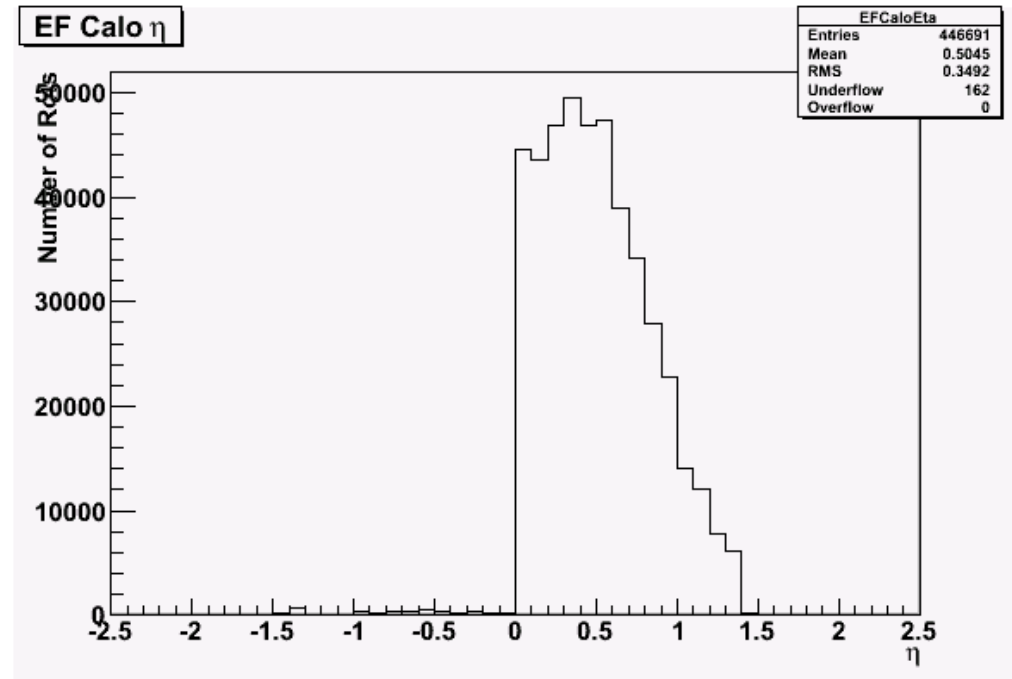
e/gamma report

Ricardo Gonalo for the e/ γ slice

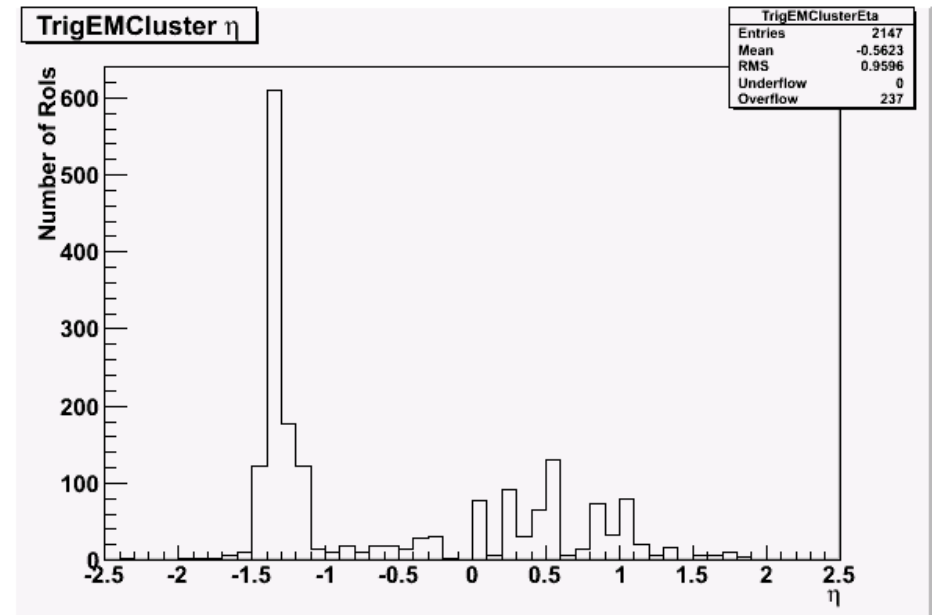
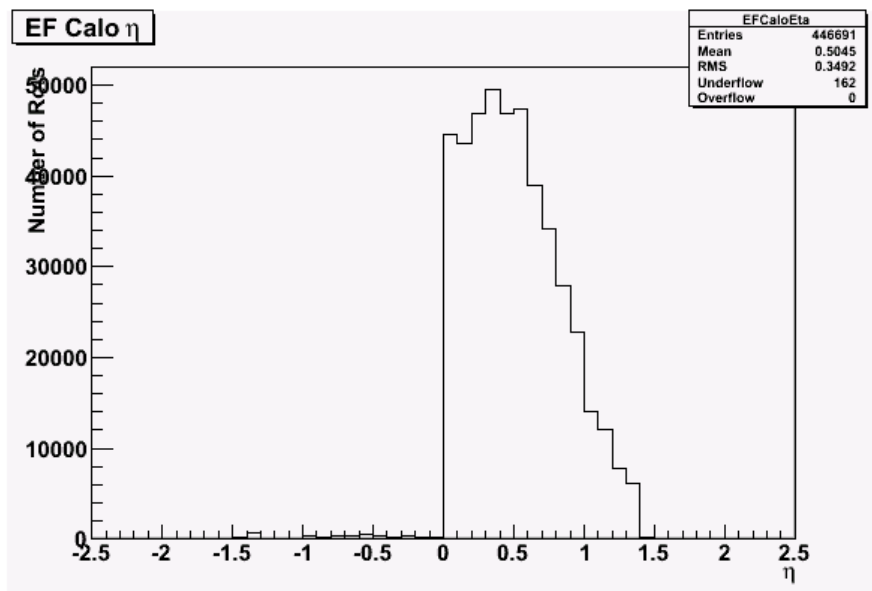
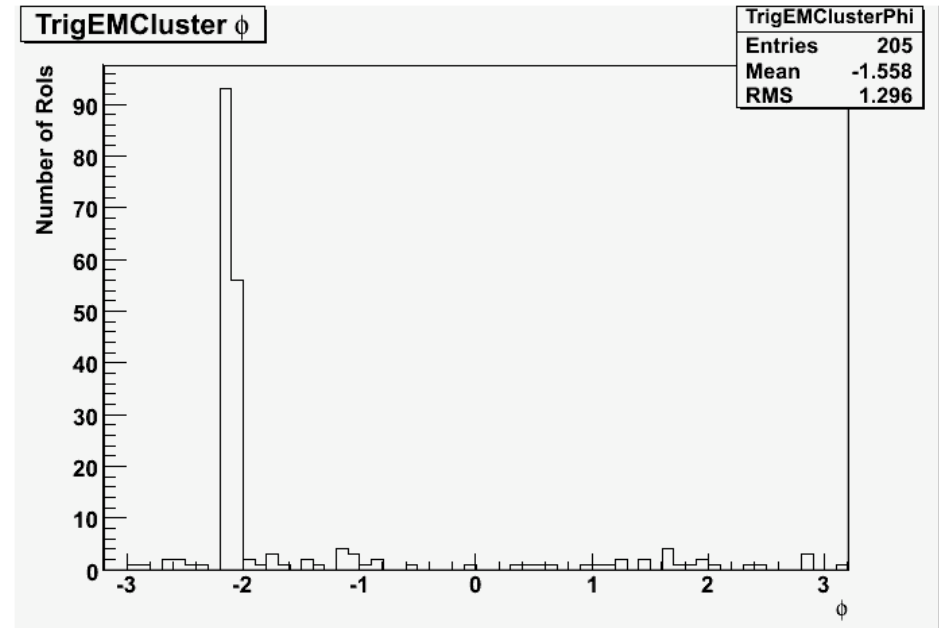
Single beam

Danilo Ferreira

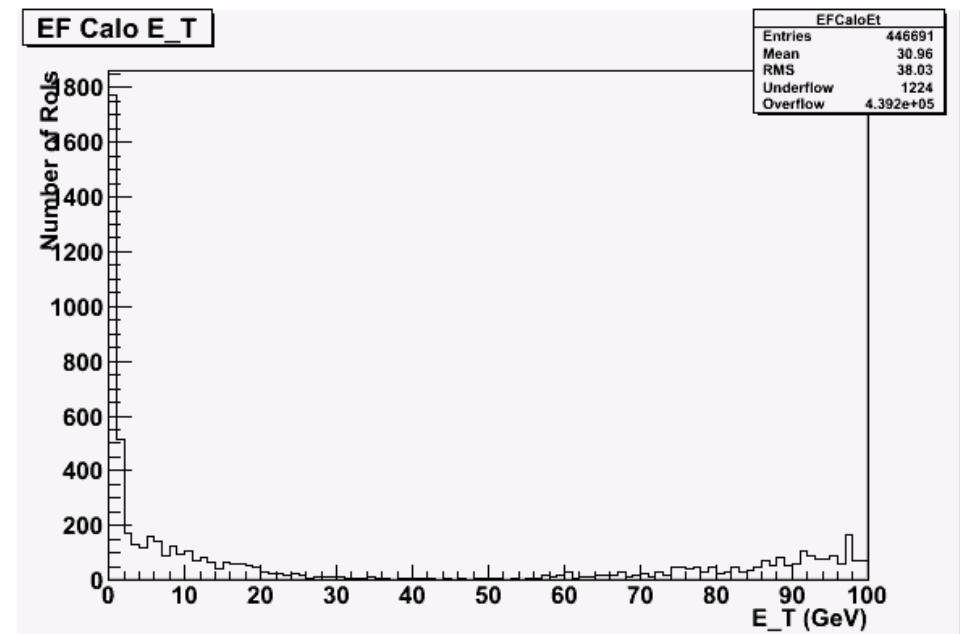
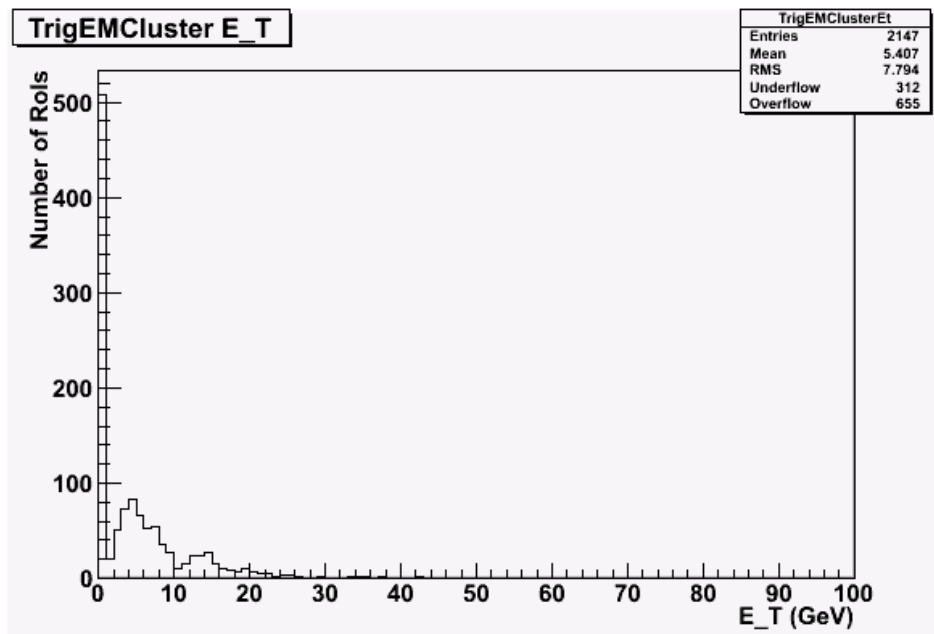
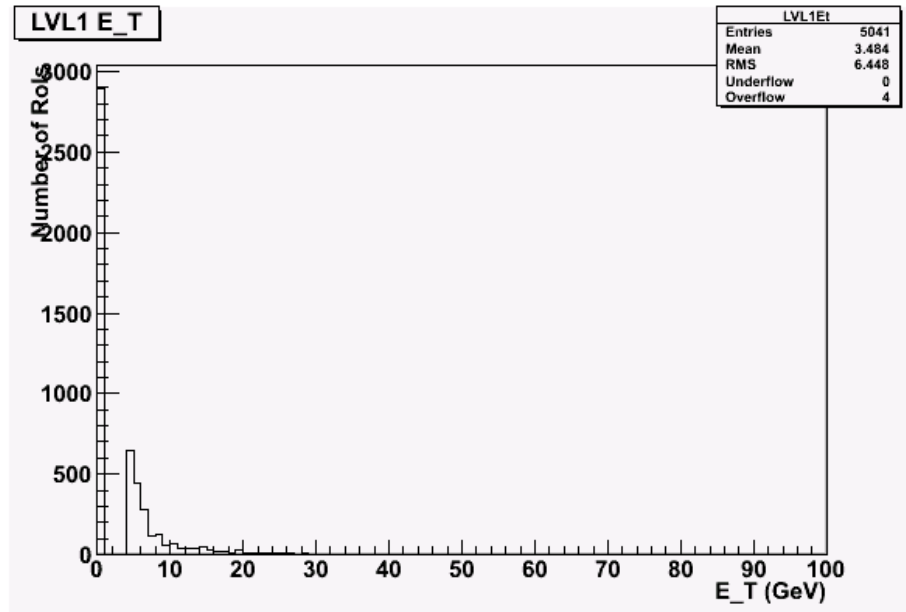
- Run 87764
 - Single-beam
 - HLT run offline
- EDM seems ok from HLT running offline
 - Except for ID-related objects
 - Chains don't get there?
- A lot more clusters with eta < 0 for EFCalo than for T2Calo
- EF energy completely off
 - Wrong LAr gain factor?
 - Last minute:
 - This may be caused by wrong timing and missing conditions for parts of Lar
 - Some of it solved since then, but offline need one preliminary iteration to synchronise digits



- Eta and phi
- Spikes at L2
 - eta \approx -1.3; phi \approx -2.1
- Very odd EF eta distribution



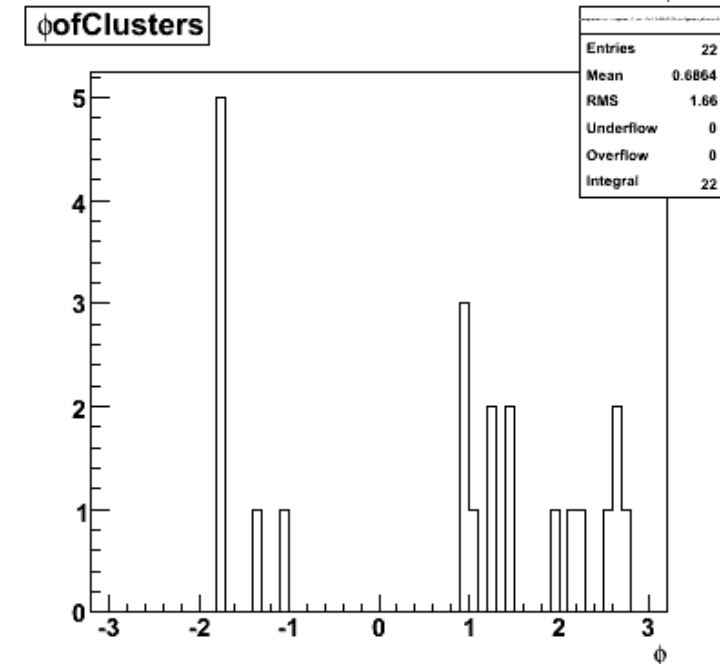
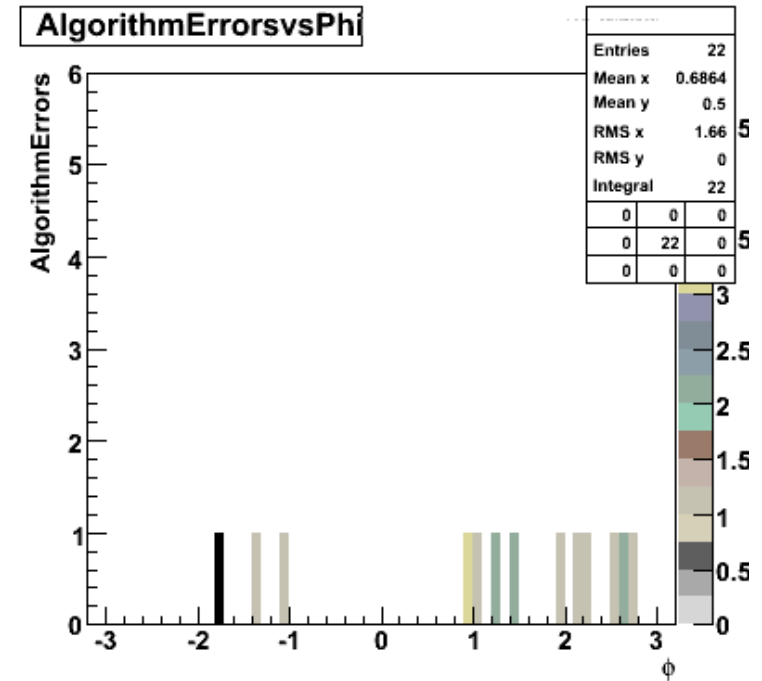
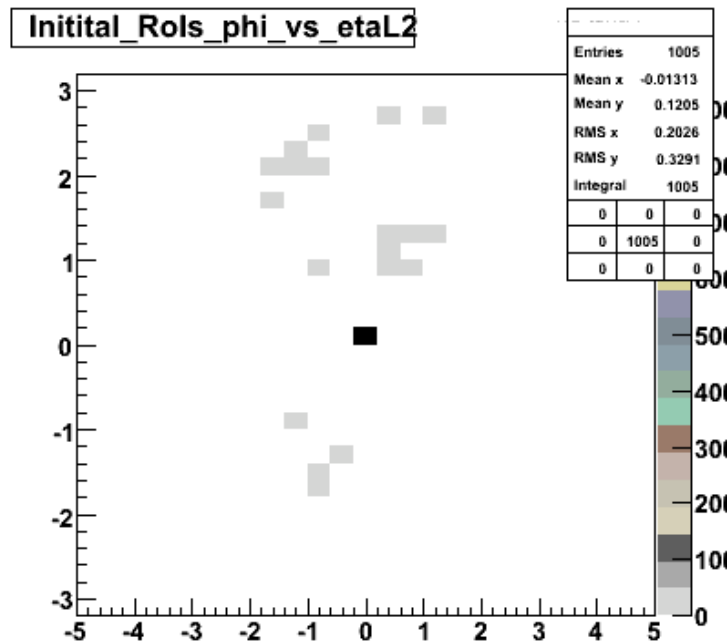
Calorimeter E_T per Rol



HLT running algorithms online!

Ricardo Gonalo

- Run 89293
- SingleBeam_v1 HLT menu running online on cosmics



EDM

File:/data2/jgoncalo/SingleBeam/Cosmics/data08_cosmag.00089293.physics_L1Calo.recon.ESD.o4_f58._lb0001._sfo01._0001.1

Size: 57901.312 kb

Nbr Events: 125

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Mem Size	Disk Size	Size/Evt	MissZip/Mem	items (X)	Container Name (X=Tree Branch)
3264.682 kb	951.958 kb	7.616 kb	0.024	125 (T)	DataHeader

114.586 kb	0.371 kb	0.003 kb	0.975	125 (B)	TrigEMClusterContainer_tlp1_HLT
114.688 kb	0.371 kb	0.003 kb	0.975	125 (B)	TrigEMClusterContainer_tlp1_HLT_TrigT2CaloCosmic
540.546 kb	0.371 kb	0.003 kb	0.995	125 (B)	Rec::TrackParticleContainer_tlp1_HLT_InDetTrigParticleCreation_Electron_EFID
540.546 kb	0.371 kb	0.003 kb	0.995	125 (B)	Rec::TrackParticleContainer_tlp1_HLT_InDetTrigParticleCreation_FullScan_EFID
540.534 kb	0.371 kb	0.003 kb	0.995	125 (B)	Rec::TrackParticleContainer_tlp1_HLT_InDetTrigParticleCreation_Photon_EFID
113.887 kb	0.373 kb	0.003 kb	0.975	125 (B)	TrigElectronContainer_tlp2_HLT_L2IDCaloFex
172.136 kb	0.378 kb	0.003 kb	0.983	125 (B)	TrigInDetTrackCollection_tlp1_HLT_TrigIDSCAN_eGamma
172.166 kb	0.378 kb	0.003 kb	0.983	125 (B)	TrigInDetTrackCollection_tlp1_HLT_TrigIDSCAN_eGamma_Brem

- Containers seem to be there
- But lots of work still needed to check things!

Other issues

- Problems trying to run on ESDs from run 89293 (used ATLAS-GEO-03-00-00)
 - Couldn't find trigger configuration in ESD file
 - IOVDbSvc errors
 - Stefan Ask sees same problem (in up-to-date code)
- Current chains:
 - “normal” e5 chains starting from EM3; separate chains for IDScan, SiTrack, FwdBckdTracking, TRTxK
 - Calibration chain: g10
 - New chains starting from MBTS+BPTX: g0_mbts_a/c
- ABORT_CHAIN:
 - Throws events to DEBUG stream (exclusive! Events lost from “physics”)
 - T2CaloEgamma now returns HLT::ErrorCode(CONTINUE, USERDEFS_2)
 - To avoid debug stream; but creates warnings! (NOTE: trigger shifter should see warnings)
 - Other ABORT_CHAIN still exist in chains
- Would be useful to have list of files with event ranges in interesting runs page

Conclusions

LOTS of work is needed!!

- People in e/gamma on-call shifts
 - Denis Damazio
 - Danilo Ferreira de Lima
 - Ricardo Goncalo
 - Phillip Urquijo
 - Andrew Hamilton
 - Monika Wielers