

Fully Leptonic ttbar Analysis:

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```
cmsrel CMSSW_5_3_13
cd CMSSW_5_3_13/src
cmsenv
git cms-addpkg TopQuarkAnalysis
git cms-merge-topic -u cms-analysis-tools:53X-updateTopRefSel
git cms-merge-topic -u cms-analysis-tools:53X-addMETAnalyzers
git cms-addpkg EgammaAnalysis/ElectronTools
cd EgammaAnalysis/ElectronTools/data
cat download.url | xargs wget
scram b -j 20
```

MC

* Exclusive dilepton ttbar sample

```
/store/mc/Summer12_DR53X/TTJets_FullLeptMGDecays_8TeV-madgraph/AODSIM/PU_S10_START53_V7A-v2/000
/store/mc/Summer12_DR53X/TTJets_FullLeptMGDecays_8TeV-madgraph/AODSIM/PU_S10_START53_V7A-v2/000
```

* DY sample

```
/store/mc/Summer12_DR53X/DYJetsToLL_M-50_TuneZ2Star_8TeV-madgraph-tarball/AODSIM/PU_S10_START53_V7A-v2/000
/store/mc/Summer12_DR53X/DYJetsToLL_M-50_TuneZ2Star_8TeV-madgraph-tarball/AODSIM/PU_S10_START53_V7A-v2/000
/store/mc/Summer12_DR53X/DYJetsToLL_M-50_TuneZ2Star_8TeV-madgraph-tarball/AODSIM/PU_S10_START53_V7A-v2/000
/store/mc/Summer12_DR53X/DYJetsToLL_M-50_TuneZ2Star_8TeV-madgraph-tarball/AODSIM/PU_S10_START53_V7A-v2/000
/store/mc/Summer12_DR53X/DYJetsToLL_M-50_TuneZ2Star_8TeV-madgraph-tarball/AODSIM/PU_S10_START53_V7A-v2/000
```

Syncro exercise results in tabular form:

Analysis	Total Events	Step 0a	Step 0b	Step 0c	Step 1	Step 2	Step 3	Step 4	Step 5	Details
ttbar MC		Trigger	Vertex	Cleaning	DiLepmass>20	ZMass Veto	Njets>=2	Met>40	BNjet>=1	
MuMu	21353	3795	3795	3793	1312	1006	717	578	543	Step 1: dilepton mass > 20 GeV, top projection ON, Step 4: MET > 40 GeV, Step5: NBjets>=1
MuMu DY	55267	8966	8966	8966	7310	569	15	2	0	Step 1: dilepton mass > 20 GeV, top projection ON, Step 4: MET > 40 GeV, Step5: NBjets>=1
EIEI	21353	1879	1879	1875	1113	853	625	488	466	Step 1: dilepton

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										mass > 20 GeV, top projection ON, Step 4: MET > 40 GeV, Step5: NBjets>=1, PF electron with gsf electron momentum, mva > 0.5; PFmuon with reliso < 0.15 (cone 0.3)
EIEI DY	55267	7794	7794	7791	5290	388	11	0	0	Step 1: dilepton mass > 20 GeV, top projection ON, Step 4: MET > 40 GeV, Step5: NBjets>=1, PF electron with gsf electron momentum, mva > 0.5; PFmuon with reliso < 0.15 (cone 0.3)
MuE1	21353	5010	5010	5009	2323	-	1705	-	1604	Step 1: dilepton mass > 20 GeV, top projection ON, Step5: NBjets>=1, PF electron with gsf electron momentum, mva > 0.5; PFmuon with reliso < 0.15 (cone 0.3)
MuE1 DY	55267	305	305	305	41	-	3	-	2	Step 1: dilepton mass > 20 GeV, top

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										projection ON, Step5: NBjets>=1, PF electron with gsf electron momentum, mva > 0.5; PFmuon with reliso < 0.15 (cone 0.3)
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Output for MuMu Syncro:

Show Hide

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TrigReport ----- Module Summary -----
TrigReport   Visited      Run      Passed   Failed   Error Name
TrigReport   21353      21353    3795     17558    0 step0a
TrigReport   3795       3795    3795      0        0 goodOfflinePrimaryVertices
TrigReport   3795       3795    3795      0        0 step0b
TrigReport   3795       3795    3794      1        0 HBHENoiseFilter
TrigReport   3794       3794    3794      0        0 CSCTightHaloFilter
TrigReport   3794       3794    3794      0        0 hcalLaserEventFilter
TrigReport   3794       3794    3793      1        0 EcalDeadCellTriggerPrimitiveFilter
TrigReport   3793       3793    3793      0        0 eeBadScFilter
TrigReport   3793       3793    3793      0        0 ecalLaserCorrFilter
TrigReport   3793       3793    3793      0        0 trackingFailureFilter
TrigReport   3793       3793    1349     2444    0 step0PF
TrigReport   1349      1349    1312      37      0 step1PF
TrigReport   1312      1312    1006     306     0 step2PF
TrigReport   1006      1006     717     289     0 step3bPF
TrigReport    717       717     578     139     0 step4PF
TrigReport    578       578     543      35      0 step5aPF
TrigReport    578       543     329     214     0 step5bPF
    
```

DY

```

TrigReport ----- Module Summary -----
TrigReport   Visited      Run      Passed   Failed   Error Name
TrigReport   55267      55267    8966     46301    0 step0a
TrigReport   8966       8966    8966      0        0 goodOfflinePrimaryVertices
TrigReport   8966       8966    8966      0        0 step0b
TrigReport   8966       8966    8966      0        0 HBHENoiseFilter
TrigReport   8966       8966    8966      0        0 CSCTightHaloFilter
TrigReport   8966       8966    8966      0        0 hcalLaserEventFilter
TrigReport   8966       8966    8966      0        0 EcalDeadCellTriggerPrimitiveFilter
TrigReport   8966       8966    8966      0        0 eeBadScFilter
TrigReport   8966       8966    8966      0        0 ecalLaserCorrFilter
TrigReport   8966       8966    8966      0        0 trackingFailureFilter
TrigReport   8966       8966    7314     1652    0 step0PF
TrigReport   7314      7314    7310      4        0 step1PF
TrigReport   7310      7310     569     6741    0 step2PF
TrigReport    569       569      15     554     0 step3PF
TrigReport    15        15       2      13      0 step4PF
TrigReport    2         2        0       2       0 step5aPF
    
```

My First Presentation in Top-Cross-Section Meeting: [link 06/11/2013](#)

Output for EIEI Syncro:

Show Hide

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TrigReport ----- Module Summary -----
TrigReport   Visited      Run      Passed   Failed   Error Name
TrigReport   21353      21353    1879     19474    0 step0a
    
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TrigReport	1879	1879	1879	0	0	goodOfflinePrimaryVertices
TrigReport	1879	1879	1879	0	0	step0b
TrigReport	1879	1879	1878	1	0	HBHENoiseFilter
TrigReport	1878	1878	1877	1	0	CSCtTightHaloFilter
TrigReport	1877	1877	1877	0	0	hcalLaserEventFilter
TrigReport	1877	1877	1875	2	0	EcalDeadCellTriggerPrimitiveFilter
TrigReport	1875	1875	1875	0	0	eeBadScFilter
TrigReport	1875	1875	1875	0	0	ecalLaserCorrFilter
TrigReport	1875	1875	1875	0	0	trackingFailureFilter
TrigReport	1875	1875	1144	731	0	step0dPF
TrigReport	1144	1144	1143	1	0	step0ePF
TrigReport	1143	1143	1113	30	0	step1PF
TrigReport	1113	1113	853	260	0	step2PF
TrigReport	853	853	625	228	0	step3PF
TrigReport	625	625	488	137	0	step4PF
TrigReport	488	488	466	22	0	step5aPF

DY

TrigReport	Visited	Run	Passed	Failed	Error	Name
TrigReport	55267	55267	7794	47473	0	step0a
TrigReport	7794	7794	7794	0	0	goodOfflinePrimaryVertices
TrigReport	7794	7794	7794	0	0	step0b
TrigReport	7794	7794	7792	2	0	HBHENoiseFilter
TrigReport	7792	7792	7791	1	0	CSCtTightHaloFilter
TrigReport	7791	7791	7791	0	0	hcalLaserEventFilter
TrigReport	7791	7791	7791	0	0	EcalDeadCellTriggerPrimitiveFilter
TrigReport	7791	7791	7791	0	0	eeBadScFilter
TrigReport	7791	7791	7791	0	0	ecalLaserCorrFilter
TrigReport	7791	7791	7791	0	0	trackingFailureFilter
TrigReport	7791	7791	5349	2442	0	step0dPF
TrigReport	5349	5349	5349	0	0	step0ePF
TrigReport	5349	5349	5290	59	0	step1PF
TrigReport	5290	5290	388	4902	0	step2PF
TrigReport	388	388	11	377	0	step3PF
TrigReport	11	11	0	11	0	step4PF
TrigReport	0	0	0	0	0	step5aPF

Output for MuEl Syncro:

Show Hide

TrigReport	Visited	Run	Passed	Failed	Error	Name
TrigReport	21353	21353	5010	16343	0	step0a
TrigReport	5010	5010	5010	0	0	goodOfflinePrimaryVertices
TrigReport	5010	5010	5010	0	0	step0b
TrigReport	5010	5010	5009	1	0	HBHENoiseFilter
TrigReport	5009	5009	5009	0	0	CSCtTightHaloFilter
TrigReport	5009	5009	5009	0	0	hcalLaserEventFilter
TrigReport	5009	5009	5009	0	0	EcalDeadCellTriggerPrimitiveFilter
TrigReport	5009	5009	5009	0	0	eeBadScFilter
TrigReport	5009	5009	5009	0	0	ecalLaserCorrFilter
TrigReport	5009	5009	5009	0	0	trackingFailureFilter
TrigReport	5009	5009	3149	1860	0	step0dPF
TrigReport	3149	3149	2385	764	0	step0ePF
TrigReport	2385	2385	2323	62	0	step1PF
TrigReport	2323	2323	1705	618	0	step3PF
TrigReport	1705	1705	1604	101	0	step5aPF

DY

TrigReport	Visited	Run	Passed	Failed	Error	Name
TrigReport	55267	55267	305	54962	0	step0a
TrigReport	305	305	305	0	0	goodOfflinePrimaryVertices
TrigReport	305	305	305	0	0	step0b
TrigReport	305	305	305	0	0	HBHENoiseFilter

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TrigReport	305	305	305	0	0	CSCtTightHaloFilter
TrigReport	305	305	305	0	0	hcallLaserEventFilter
TrigReport	305	305	305	0	0	EcalDeadCellTriggerPrimitiveFilter
TrigReport	305	305	305	0	0	eeBadScFilter
TrigReport	305	305	305	0	0	ecalLaserCorrFilter
TrigReport	305	305	305	0	0	trackingFailureFilter
TrigReport	305	305	167	138	0	step0dPF
TrigReport	167	167	41	126	0	step0ePF
TrigReport	41	41	41	0	0	step1PF
TrigReport	41	41	3	38	0	step3PF
TrigReport	3	3	2	1	0	step5aPF

- SM CrossSections at 8TeV
- CMS values for the major SM cross sections [↗](#)

Location: --dbs=ph02 --site=T2_PK_NCP search key "/*tkhurshi*8TeV*/"

• MC: Di-Muon

AODSIM	No of Events	Xsection (pb)	Luminosity (fb)	Size	
FullLept MGDecays v2	12119013	24.6	492.6428049	4.6TB	/TTJets_FullLeptMGDecays_8TeV-ma
FullLept MGDecays	12011428			4.6TB	/TTJets_FullLeptMGDecays_8TeV-ma
BKG					
SemiLept MGDecays ext v1	25424818	103	246.8428932	10TB	/TTJets_SemiLeptMGDecays_8TeV-m
SemiLept MGDecays	24963676			9.8TB	/TTJets_SemiLeptMGDecays_8TeV-m
Hadronic MGDecays	10537444	106.9	98.57290926	4.2TB	/TTJets_HadronicMGDecays_8TeV-m
T_tW-channel	497658	11.2	44.43375	188.6GB	/T_tW-channel-DR_TuneZ2star_8TeV
Tbar tW-channel	493460	11.2	44.05892857	187.2GB	/Tbar_tW-channel-DR_TuneZ2star_8T
WJets ToLNu v2	57709905	37509.0	1.538561545	18.4TB	/WJetsToLNu_TuneZ2Star_8TeV-ma
WWJets To2L2Nu	1933235	5.8	333.3163793	650.7GB	/WWJetsTo2L2Nu_TuneZ2star_8TeV
WW	10000431	54.838		3.5TB	/WW_TuneZ2star_8TeV_pythia6_tauo
WZ	10000283	22.4	446.4412054	3.5TB	/WZ_TuneZ2star_8TeV_pythia6_tauo
ZZ	9799908	9.0	1088.878667	3.4TB	/ZZ_TuneZ2star_8TeV_pythia6_tauo
DYJetsToLL M-10To50filter	7132223	860.5	8.288463684	2.3TB	/DYJetsToLL_M-10To50filter_8TeV-
DYJetsToLL M-50	30459503	3532.8	8.621915478	10TB	/DYJetsToLL_M-50_TuneZ2Star_8Te
QCD_Pt_20_30_EMEnriched	35040695	29148.6	1.202139897	11.5TB	/QCD_Pt_20_30_EMEnriched_TuneZ
QCD_Pt_30_80_EMEnriched	33088888	4615893.0	0.007168470	11.2TB	/QCD_Pt_30_80_EMEnriched_TuneZ
QCD_Pt_80_170_EMEnriched	34542763	183294.9	0.188454578	12.5TB	/QCD_Pt_80_170_EMEnriched_Tune
QCD_Pt_20_MuEnriched	21484602	134680.0	0.159523329	7.5TB	/QCD_Pt_20_MuEnrichedPt_15_Tune
QCD_Pt_20_30_BCToE	1740229	167388.0	0.010396378	573.4GB	/QCD_Pt_20_30_BCToE_TuneZ2star
QCD_Pt_30_80_BCToE	2048152	167040.0	0.012261446	700.6GB	/QCD_Pt_30_80_BCToE_TuneZ2star
QCD_Pt_80_170_BCToE	1945525	12981.9	0.149864427	707.6GB	/QCD_Pt_80_170_BCToE_TuneZ2star
SYS					
TTJets_MassiveBinDecays	6923750			2.7TB	/TTJets_MassiveBinDECAY_TuneZ2s
TTJets_matchingup	5415010			2.1TB	/TTJets_matchingup_TuneZ2star_8TeV
TTJets_matchingdown	5476728			2.2TB	/TTJets_matchingdown_TuneZ2star_8
TTJets_scaleup	5009488			2TB	/TTJets_scaleup_TuneZ2star_8TeV-m
TTJets_scaledown	5387181			2.2TB	/TTJets_scaledown_TuneZ2star_8TeV
TTJets_mass161_5	5369214			2.1TB	/TTJets_mass161_5_TuneZ2star_8TeV
TTJets_mass163_5	5365348			2.1TB	/TTJets_mass163_5_TuneZ2star_8TeV
TTJets_mass166_5	4469095			1.8TB	/TTJets_mass166_5_TuneZ2star_8TeV

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TTJets_mass169_5	5202817			2.1TB	/TTJets_mass169_5_TuneZ2star_8TeV
TTJets_mass175_5	5186494			2.1TB	/TTJets_mass175_5_TuneZ2star_8TeV
TTJets_mass178_5	4733483			1.9TB	/TTJets_mass178_5_TuneZ2star_8TeV
TTJets_mass181_5	5145140			2TB	/TTJets_mass181_5_TuneZ2star_8TeV
TTJets_mass184_5	5249525			2.1TB	/TTJets_mass184_5_TuneZ2star_8TeV
TT	32852589			13.1TB	/TT_8TeV-mcatnlo/tkhurshi-MC_MuN
TT_noCorr	24766326			9.8TB	/TT_noCorr_8TeV-mcatnlo/tkhurshi-M
TT_CT10	21675970			8.6TB	/TT_CT10_TuneZ2star_8TeV-powheg
TTTo2L2Nu2B	10783509			4.1TB	/TTTo2L2Nu2B_8TeV-powheg-pythia
For BKG Estimation					
DYJetsToLL_M-10To50filter	7132223			2.3TB	/DYJetsToLL_M-10To50filter_8TeV-
DYJetsToLL M-50	30459503			10TB	

• MC: Di-Electron

AODSIM	No of Events	Size	
FullLept MGDecays v2	12119013	4.6TB	/TTJets_FullLeptMGDecays_8TeV-madgraph/tkhurshi-MC_Sig
FullLept MGDecays	12011428	4.6TB	/TTJets_FullLeptMGDecays_8TeV-madgraph-tauola/tkhurshi-M
BKG			
SemiLept MGDecays ext v1	25424818	10TB	/TTJets_SemiLeptMGDecays_8TeV-madgraph/tkhurshi-MC_BK
SemiLept MGDecays	24963676	9.8TB	/TTJets_SemiLeptMGDecays_8TeV-madgraph-tauola/tkhurshi-M
Hadronic MGDecays	10537444	4.2TB	/TTJets_HadronicMGDecays_8TeV-madgraph/tkhurshi-MC_BK
T_tW-channel	497658	188.6GB	/T_tW-channel-DR_TuneZ2star_8TeV-powheg-tauola/tkhurshi-
Tbar tW-channel	493460	187.2GB	/Tbar_tW-channel-DR_TuneZ2star_8TeV-powheg-tauola/tkhurs
WJets ToLNU v2	57709905	18.4TB	/WJetsToLNU_TuneZ2Star_8TeV-madgraph-tarball/tkhurshi-MC
WWJets To2L2Nu	1933235	650.7GB	/WWJetsTo2L2Nu_TuneZ2star_8TeV-madgraph-tauola/tkhurshi-
WW	10000431	3.5TB	/WW_TuneZ2star_8TeV_pythia6_tauola/tkhurshi-EIEI_MC_BK
WZ	10000283	3.5TB	/WZ_TuneZ2star_8TeV_pythia6_tauola/tkhurshi-MC_BKG_EIE
ZZ	9799908	3.4TB	/ZZ_TuneZ2star_8TeV_pythia6_tauola/tkhurshi-MC_BKG_EIE
DYJetsToLL M-10To50filter	7132223	2.3TB	/DYJetsToLL_M-10To50filter_8TeV-madgraph/tkhurshi-MC_B
DYJetsToLL M-50	30459503	10TB	/DYJetsToLL_M-50_TuneZ2Star_8TeV-madgraph-tarball/tkhur
QCD_Pt_20_30_EMEnriched	35040695	11.5TB	/QCD_Pt_20_30_EMEnriched_TuneZ2star_8TeV_pythia6/tkhur
QCD_Pt_30_80_EMEnriched	33088888	11.2TB	/QCD_Pt_30_80_EMEnriched_TuneZ2star_8TeV_pythia6/tkhur
QCD_Pt_80_170_EMEnriched	34542763	12.5TB	/QCD_Pt_80_170_EMEnriched_TuneZ2star_8TeV_pythia6/tkhur
QCD_Pt_20_MuEnriched	21484602	7.5TB	/QCD_Pt_20_MuEnrichedPt_15_TuneZ2star_8TeV_pythia6/tkh
QCD_Pt_20_30_BCToE	1740229	573.4GB	/QCD_Pt_20_30_BCToE_TuneZ2star_8TeV_pythia6/tkhurshi-M
QCD_Pt_30_80_BCToE	2048152	700.6GB	/QCD_Pt_30_80_BCToE_TuneZ2star_8TeV_pythia6/tkhurshi-M
QCD_Pt_80_170_BCToE	1945525	707.6GB	/QCD_Pt_80_170_BCToE_TuneZ2star_8TeV_pythia6/tkhurshi-l
SYS			
TTJets_MassiveBinDECAY	6923750	2.7TB	/TTJets_MassiveBinDECAY_TuneZ2star_8TeV-madgraph-tauo
TTJets_matchingup	5415010	2.1TB	/TTJets_matchingup_TuneZ2star_8TeV-madgraph-tauola/tkhurs
TTJets_matchingdown	5476728	2.2TB	/TTJets_matchingdown_TuneZ2star_8TeV-madgraph-tauola/tkh
TTJets_scaleup	5009488	2TB	/TTJets_scaleup_TuneZ2star_8TeV-madgraph-tauola/tkhurshi-M
TTJets_scaledown	5387181	2.2TB	/TTJets_scaledown_TuneZ2star_8TeV-madgraph-tauola/tkhursh
TTJets_mass161_5	5369214	2.1TB	/TTJets_mass161_5_TuneZ2star_8TeV-madgraph-tauola/tkhursl
TTJets_mass163_5	5365348	2.1TB	/TTJets_mass163_5_TuneZ2star_8TeV-madgraph-tauola/tkhursl
TTJets_mass166_5	4469095	1.8TB	/TTJets_mass166_5_TuneZ2star_8TeV-madgraph-tauola/tkhursl
TTJets_mass169_5	5202817	2.1TB	/TTJets_mass169_5_TuneZ2star_8TeV-madgraph-tauola/tkhursl
TTJets_mass175_5	5186494	2.1TB	/TTJets_mass175_5_TuneZ2star_8TeV-madgraph-tauola/tkhursl

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TTJets_mass178_5	4733483	1.9TB	/TTJets_mass178_5_TuneZ2star_8TeV-madgraph-tauola/tkhurshi-MC_EIEI_SYS_TT_8TeV-mcatnlo
TTJets_mass181_5	5145140	2TB	/TTJets_mass181_5_TuneZ2star_8TeV-madgraph-tauola/tkhurshi-MC_EIEI_SYS_TT_8TeV-mcatnlo
TTJets_mass184_5	5249525	2.1TB	/TTJets_mass184_5_TuneZ2star_8TeV-madgraph-tauola/tkhurshi-MC_EIEI_SYS_TT_8TeV-mcatnlo
TT	32852589	13.1TB	/TT_8TeV-mcatnlo/tkhurshi-MC_EIEI_SYS_TT_8TeV-mcatnlo
TT_noCorr	24766326	9.8TB	/TT_noCorr_8TeV-mcatnlo/tkhurshi-MC_EIEI_SYS_TT_noCorr
TT_CT10	21675970	8.6TB	/TT_CT10_TuneZ2star_8TeV-powheg-tauola/tkhurshi-MC_EIEI_SYS_TT_CT10
TTTo2L2Nu2B	10783509	4.1TB	/TTTo2L2Nu2B_8TeV-powheg-pythia6/tkhurshi-MC_EIEI_SYS_TTTo2L2Nu2B

• MC: Di-Lepton

AODSIM	No of Events	Size	
FullLept MGDecays v2	12119013	4.6TB	/TTJets_FullLeptMGDecays_8TeV-madgraph/tkhurshi-MC_EIEI_SYS_FullLeptMGDecays_v2
FullLept MGDecays	12011428	4.6TB	/TTJets_FullLeptMGDecays_8TeV-madgraph-tauola/tkhurshi-MC_EIEI_SYS_FullLeptMGDecays
BKG			
SemiLept MGDecays ext v1	25424818	10TB	/TTJets_SemiLeptMGDecays_8TeV-madgraph/tkhurshi-MC_EIEI_SYS_SemiLeptMGDecays_ext_v1
SemiLept MGDecays	24963676	9.8TB	/TTJets_SemiLeptMGDecays_8TeV-madgraph-tauola/tkhurshi-MC_EIEI_SYS_SemiLeptMGDecays
Hadronic MGDecays	10537444	4.2TB	/TTJets_HadronicMGDecays_8TeV-madgraph/tkhurshi-MC_EIEI_SYS_HadronicMGDecays
T_tW-channel	497658	188.6GB	/T_tW-channel-DR_TuneZ2star_8TeV-powheg-tauola/tkhurshi-MC_EIEI_SYS_T_tW-channel
Tbar tW-channel	493460	187.2GB	/Tbar_tW-channel-DR_TuneZ2star_8TeV-powheg-tauola/tkhurshi-MC_EIEI_SYS_Tbar_tW-channel
WJets ToLNU v2	57709905	18.4TB	/WJetsToLNU_TuneZ2Star_8TeV-madgraph-tarball/tkhurshi-MC_EIEI_SYS_WJetsToLNU_v2
WWJets To2L2Nu	1933235	650.7GB	/WWJetsTo2L2Nu_TuneZ2star_8TeV-madgraph-tauola/tkhurshi-MC_EIEI_SYS_WWJetsTo2L2Nu
WZ	10000283	3.5TB	/WZ_TuneZ2star_8TeV_pythia6_tauola/tkhurshi-MC_EIEI_SYS_WZ
ZZ	9799908	3.4TB	/ZZ_TuneZ2star_8TeV_pythia6_tauola/tkhurshi-MC_EIEI_SYS_ZZ
DYJetsToLL M-10To50filter	7132223	2.3TB	/DYJetsToLL_M-10To50filter_8TeV-madgraph/tkhurshi-MC_EIEI_SYS_DYJetsToLL_M-10To50filter
DYJetsToLL M-50	30459503	10TB	/DYJetsToLL_M-50_TuneZ2Star_8TeV-madgraph-tarball/tkhurshi-MC_EIEI_SYS_DYJetsToLL_M-50
QCD_Pt_20_30_EMEnriched	35040695	11.5TB	/QCD_Pt_20_30_EMEnriched_TuneZ2star_8TeV_pythia6/tkhurshi-MC_EIEI_SYS_QCD_Pt_20_30_EMEnriched
QCD_Pt_30_80_EMEnriched	33088888	11.2TB	/QCD_Pt_30_80_EMEnriched_TuneZ2star_8TeV_pythia6/tkhurshi-MC_EIEI_SYS_QCD_Pt_30_80_EMEnriched
QCD_Pt_80_170_EMEnriched	34542763	12.5TB	/QCD_Pt_80_170_EMEnriched_TuneZ2star_8TeV_pythia6/tkhurshi-MC_EIEI_SYS_QCD_Pt_80_170_EMEnriched
QCD_Pt_20_MuEnriched	21484602	7.5TB	/QCD_Pt_20_MuEnrichedPt_15_TuneZ2star_8TeV_pythia6/tkhurshi-MC_EIEI_SYS_QCD_Pt_20_MuEnriched
QCD_Pt_20_30_BCToE	1740229	573.4GB	/QCD_Pt_20_30_BCToE_TuneZ2star_8TeV_pythia6/tkhurshi-MC_EIEI_SYS_QCD_Pt_20_30_BCToE
QCD_Pt_30_80_BCToE	2048152	700.6GB	/QCD_Pt_30_80_BCToE_TuneZ2star_8TeV_pythia6/tkhurshi-MC_EIEI_SYS_QCD_Pt_30_80_BCToE
QCD_Pt_80_170_BCToE	1945525	707.6GB	/QCD_Pt_80_170_BCToE_TuneZ2star_8TeV_pythia6/tkhurshi-MC_EIEI_SYS_QCD_Pt_80_170_BCToE
SYS			
TTJets_MassiveBinDECAY	6923750	2.7TB	/TTJets_MassiveBinDECAY_TuneZ2star_8TeV-madgraph-tauola/tkhurshi-MC_EIEI_SYS_TTJets_MassiveBinDECAY
TTJets_matchingup	5415010	2.1TB	/TTJets_matchingup_TuneZ2star_8TeV-madgraph-tauola/tkhurshi-MC_EIEI_SYS_TTJets_matchingup
TTJets_matchingdown	5476728	2.2TB	/TTJets_matchingdown_TuneZ2star_8TeV-madgraph-tauola/tkhurshi-MC_EIEI_SYS_TTJets_matchingdown
TTJets_scaleup	5009488	2TB	/TTJets_scaleup_TuneZ2star_8TeV-madgraph-tauola/tkhurshi-MC_EIEI_SYS_TTJets_scaleup
TTJets_scaledown	5387181	2.2TB	/TTJets_scaledown_TuneZ2star_8TeV-madgraph-tauola/tkhurshi-MC_EIEI_SYS_TTJets_scaledown
TTJets_mass161_5	5369214	2.1TB	/TTJets_mass161_5_TuneZ2star_8TeV-madgraph-tauola/tkhurshi-MC_EIEI_SYS_TTJets_mass161_5
TTJets_mass163_5	5365348	2.1TB	/TTJets_mass163_5_TuneZ2star_8TeV-madgraph-tauola/tkhurshi-MC_EIEI_SYS_TTJets_mass163_5
TTJets_mass166_5	4469095	1.8TB	/TTJets_mass166_5_TuneZ2star_8TeV-madgraph-tauola/tkhurshi-MC_EIEI_SYS_TTJets_mass166_5
TTJets_mass169_5	5202817	2.1TB	/TTJets_mass169_5_TuneZ2star_8TeV-madgraph-tauola/tkhurshi-MC_EIEI_SYS_TTJets_mass169_5
TTJets_mass175_5	5186494	2.1TB	/TTJets_mass175_5_TuneZ2star_8TeV-madgraph-tauola/tkhurshi-MC_EIEI_SYS_TTJets_mass175_5
TTJets_mass178_5	4733483	1.9TB	/TTJets_mass178_5_TuneZ2star_8TeV-madgraph-tauola/tkhurshi-MC_EIEI_SYS_TTJets_mass178_5
TTJets_mass181_5	5145140	2TB	/TTJets_mass181_5_TuneZ2star_8TeV-madgraph-tauola/tkhurshi-MC_EIEI_SYS_TTJets_mass181_5
TTJets_mass184_5	5249525	2.1TB	/TTJets_mass184_5_TuneZ2star_8TeV-madgraph-tauola/tkhurshi-MC_EIEI_SYS_TTJets_mass184_5
TT	32852589	13.1TB	/TT_8TeV-mcatnlo/tkhurshi-MC_MuEi_SYS_TT_8TeV-mcatnlo
TT_noCorr	24766326	9.8TB	/TT_noCorr_8TeV-mcatnlo/tkhurshi-MC_MuEi_SYS_TT_noCorr
TT_CT10	21675970	8.6TB	/TT_CT10_TuneZ2star_8TeV-powheg-tauola/tkhurshi-MC_MuEi_SYS_TT_CT10

TTTo2L2Nu2B	10783509	4.1TB	/TTTo2L2Nu2B_8TeV-powheg-pythia6/tkhurshi-MC_MuEl_S
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Single JSON file is used: Cert_190456-208686_8TeV_22Jan2013ReReco_Collisions12_JSON.txt

Location: --dbs=ph02 --site=T2_PK_NCP search key "/*/tkhurshi*Run2012*/"

- **Data: DoubleMuParked**

- lumiSummary_DoubleMuParked_22Jan2013_Run2012A.json
- lumiSummary_DoubleMuParked_22Jan2013_Run2012B.json
- lumiSummary_DoubleMuParked_22Jan2013_Run2012C.json
- lumiSummary_DoubleMuParked_22Jan2013_Run2012D.json

AOD	No of Events	Size	NTuple
Run2012A 22Jan2013-v1	6432930	1.6TB	/DoubleMuParked/tkhurshi-DoubleMuParked_Run2012A-22Jan2013-v1-f99f54a6a
Run2012B 22Jan2013-v1	29308627	8.7TB	/DoubleMuParked/tkhurshi-DoubleMuParked_Run2012B-22Jan2013-v1-f99f54a6a
Run2012C 22Jan2013-v1	36820243	10.7TB	/DoubleMuParked/tkhurshi-DoubleMuParked_Run2012C-22Jan2013-v1-f99f54a6a
Run2012D 22Jan2013-v1	38006513	12.1TB	/DoubleMuParked/tkhurshi-DoubleMuParked_Run2012D-22Jan2013-v1-f99f54a6a

- **Data: DoubleElectron**

- lumiSummary_DoubleElectron_22Jan2013_Run2012A.json
- lumiSummary_DoubleElectron_22Jan2013_Run2012B.json
- lumiSummary_DoubleElectron_22Jan2013_Run2012C.json
- lumiSummary_DoubleElectron_22Jan2013_Run2012D.json

AOD	No of Events	Size	NTuple
Run2012A 22Jan2013-v1	12964286	2.9TB	/DoubleElectron/tkhurshi-DoubleElectron_Run2012A-22Jan2013-v1-9039a982739
Run2012B 22Jan2013-v1	23571931	6.4TB	/DoubleElectron/tkhurshi-DoubleElectron_Run2012B-22Jan2013-v1-9039a982739
Run2012C 22Jan2013-v1	33843769	9.4TB	/DoubleElectron/tkhurshi-DoubleElectron_Run2012C-22Jan2013-v1-9039a982739
Run2012D 22Jan2013-v1	34526899	10.1TB	/DoubleElectron/tkhurshi-DoubleElectron_Run2012D-22Jan2013-v1_new-9039a98

- **Data: MuEG**

- lumiSummary_MuEG_22Jan2013_Run2012A.json
- lumiSummary_MuEG_22Jan2013_Run2012B.json
- lumiSummary_MuEG_22Jan2013_Run2012C.json
- lumiSummary_MuEG_22Jan2013_Run2012D.json

AOD	No of Events	Size	NTuple
Run2012A 22Jan2013-v1	2518137	649.1GB	/MuEG/tkhurshi-MuEG_Run2012A-22Jan2013-v1-c21192fca72f6d0087629fa3cc
Run2012B 22Jan2013-v1	14776453	4.4TB	/MuEG/tkhurshi-MuEG_Run2012B-22Jan2013-v1-c21192fca72f6d0087629fa3cc

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Run2012C 22Jan2013-v1	20791905	6.3TB	/MuEG/tkhurshi-MuEG_Run2012C-22Jan2013-v1-c21192fca72f6d0087629fa3cc
Run2012D 22Jan2013-v1	21978229	7.2TB	/MuEG/tkhurshi-MuEG_Run2012D-22Jan2013-v1_new-c21192fca72f6d0087629

```
scramv1 p CMSSW CMSSW_5_3_9
cd CMSSW_5_3_9
git clone https://github.com/cms-sw/RecoLuminosity-LumiDB.git src/RecoLuminosity
cd src/RecoLuminosity/LumiDB
git checkout V04-02-10
scramv1 b
cmsenv
```

DoubleMuParked:

- lumiSummary_DoubleMuParked_22Jan2013.json

```
lumiCalc2.py overview -i lumiSummary_DoubleMuParked_22Jan2013.json --hltpath "HLT_Mu17_Mu8_v*" --
```

Delivered LS	Delivered(/fb)	Selected LS	Recorded(/fb)
221944	20.094	221944	19.747

```
pixelLumiCalc.py overview -i lumiSummary_DoubleMuParked_22Jan2013.json --hltpath "HLT_Mu17_Mu8_v*"
```

Delivered LS	Delivered(/fb)	Selected LS	Recorded(/fb)
221557	20.016	221557	19.670

for 2012A and 2012B combined

```
lumiCalc2.py overview -i jsonfiles/lumiSummary_DoubleMuParked_22Jan2013_Run2012_AB.json --hltpath
```

Delivered LS	Delivered(/fb)	Selected LS	Recorded(/fb)
67232	5.420	67232	5.315

for 2012A, 2012B and 2012C

```
lumiCalc2.py overview -i jsonfiles/lumiSummary_DoubleMuParked_22Jan2013_Run2012_ABC.json --hltpath
```

Delivered LS	Delivered(/fb)	Selected LS	Recorded(/fb)
147534	12.648	147534	12.429

MuEG:

- lumiSummary_MuEG_22Jan2013.json

```
lumiCalc2.py overview -i lumiSummary_MuEG_22Jan2013.json --hltpath "HLT_Mu17_Ele8_CaloIdT_CaloIso"
```

Delivered LS	Delivered(/fb)	Selected LS	Recorded(/fb)
222173	20.128	222173	19.780

```
pixelLumiCalc.py overview -i lumiSummary_MuEG_22Jan2013.json --hltpath "HLT_Mu17_Ele8_CaloIdT_Cal"
```

Delivered LS	Delivered(/fb)	Selected LS	Recorded(/fb)
221786	20.050	221786	19.703

for 2012A 2012B

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lumiCalc2.py overview -i jsonfiles/lumiSummary_MuEG_22Jan2013_Run2012_AB.json --hltpath "HLT_Mu17

Delivered LS	Delivered(/fb)	Selected LS	Recorded(/fb)
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67268	5.423	67268	5.319
-------	-------	-------	-------

for 2012A, 2012B and 2012C

lumiCalc2.py overview -i jsonfiles/lumiSummary_MuEG_22Jan2013_Run2012_ABC.json --hltpath "HLT_Mu17

Delivered LS	Delivered(/fb)	Selected LS	Recorded(/fb)
--------------	----------------	-------------	---------------

147851	12.691	147851	12.471
--------	--------	--------	--------

DoubleElectron:

- lumiSummary_DoubleElectron_22Jan2013.json

lumiCalc2.py overview -i lumiSummary_DoubleElectron_22Jan2013.json --hltpath "HLT_Ele17_CaloIdT_C

Delivered LS	Delivered(/fb)	Selected LS	Recorded(/fb)
222217	20.133	222217	19.785

pixelLumiCalc.py overview -i lumiSummary_DoubleElectron_22Jan2013.json --hltpath "HLT_Ele17_CaloIdT_C

Delivered LS	Delivered(/fb)	Selected LS	Recorded(/fb)
221830	20.055	221830	19.708

for 2012A and 2012B

lumiCalc2.py overview -i jsonfiles/lumiSummary_DoubleElectron_22Jan2013_Run2012_AB.json --hltpath

Delivered LS	Delivered(/fb)	Selected LS	Recorded(/fb)
--------------	----------------	-------------	---------------

67268	5.423	67268	5.319
-------	-------	-------	-------

for 2012A, 2012B and 2012C

lumiCalc2.py overview -i jsonfiles/lumiSummary_DoubleElectron_22Jan2013_Run2012_ABC.json --hltpath

Delivered LS	Delivered(/fb)	Selected LS	Recorded(/fb)
--------------	----------------	-------------	---------------

147849	12.690	147849	12.471
--------	--------	--------	--------

- **Data: DoubleMuon**

AOD	No of Events	Size	NTuple
Run2012A 22Jan2013-v1	6432930	1.6TB	/DoubleMuParked/tkhurshi-DoubleMuParked_Run2012A-22Jan2013-v1
Run2012B 22Jan2013-v1	29308627	8.7TB	/DoubleMuParked/tkhurshi-DoubleMuParked_Run2012B-22Jan2013-v1
Run2012C 22Jan2013-v1	36820243	10.7TB	/DoubleMuParked/tkhurshi-DoubleMuParked_Run2012C-22Jan2013-v1
Run2012D 22Jan2013-v1	38006513	12.1TB	/DoubleMuParked/tkhurshi-DoubleMuParked_Run2012D-22Jan2013-v1
DYJetsToLL_M-10To50filter	7132223	2.3TB	/DYJetsToLL_M-10To50filter_8TeV-madgraph/tkhurshi-MC_BK
DYJetsToLL M-50	30459503	10TB	/DYJetsToLL_M-50_TuneZ2Star_8TeV-madgraph-tarball/tkhurshi

- **Data: DoubleElectron (Without Z-Veto Cut)**

Data : (Without Z-Veto Cut)

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Run2012A 22Jan2013-v1	12964286	2.9TB	/DoubleElectron/tkhurshi-DoubleElectron_Run2012A-22Jan2013-v1
Run2012B 22Jan2013-v1	23571931	6.4TB	/DoubleElectron/tkhurshi-DoubleElectron_Run2012B-22Jan2013-v1
Run2012C 22Jan2013-v1	33843769	9.4TB	/DoubleElectron/tkhurshi-DoubleElectron_Run2012C-22Jan2013-v1
Run2012D 22Jan2013-v1	34526899	10.1TB	/DoubleElectron/tkhurshi-DoubleElectron_Run2012D-22Jan2013-v1
DYJetsToLL_M-10To50filter	7132223	2.3TB	/DYJetsToLL_M-10To50filter_8TeV-madgraph/tkhurshi-MC_BK
DYJetsToLL M-50	30459503	10TB	/DYJetsToLL_M-50_TuneZ2Star_8TeV-madgraph-tarball/tkhurshi

• **Data: DoubleMuon** (Without Z-Veto and MET Cut)

Data			
AOD	No of Events	Size	PATTuple
Run2012A 22Jan2013-v1	6432930	1.6TB	/DoubleMuParked/tkhurshi-DoubleMuParked_Run2012A-22Jan2013-v1
Run2012B 22Jan2013-v1	29308627	8.7TB	/DoubleMuParked/tkhurshi-DoubleMuParked_Run2012B-22Jan2013-v1
Run2012C 22Jan2013-v1	36820243	10.7TB	/DoubleMuParked/tkhurshi-DoubleMuParked_Run2012C-22Jan2013-v1
Run2012D 22Jan2013-v1	38006513	12.1TB	/DoubleMuParked/tkhurshi-DoubleMuParked_Run2012D-22Jan2013-v1
MC			
FullLept MGDecays	12011428	4.6TB	/TTJets_FullLeptMGDecays_8TeV-madgraph-tauola/tkhurshi-M
SemiLept MGDecays	24963676	9.8TB	/TTJets_SemiLeptMGDecays_8TeV-madgraph-tauola/tkhurshi-M
Hadronic MGDecays	10537444	4.2TB	/TTJets_HadronicMGDecays_8TeV-madgraph/tkhurshi-MuMu
T_tW-channel	497658	188.6GB	/T_tW-channel-DR_TuneZ2star_8TeV-powheg-tauola/tkhurshi-M
Tbar tW-channel	493460	187.2GB	/Tbar_tW-channel-DR_TuneZ2star_8TeV-powheg-tauola/tkhurshi-M
WJets ToLNu v2	57709905	18.4TB	/WJetsToLNu_TuneZ2Star_8TeV-madgraph-tarball/tkhurshi-MuMu
WWJets To2L2Nu	1933235	650.7GB	/WWJetsTo2L2Nu_TuneZ2star_8TeV-madgraph-tauola/tkhurshi-M
WZ	10000283	3.5TB	/WZ_TuneZ2star_8TeV_pythia6_tauola/tkhurshi-MuMu_WZ_T
ZZ	9799908	3.4TB	/ZZ_TuneZ2star_8TeV_pythia6_tauola/tkhurshi-MuMu_ZZ_Tu
QCD_Pt_20_30_EMEnriched	35040695	11.5TB	/QCD_Pt_20_30_EMEnriched_TuneZ2star_8TeV_pythia6/tkhurshi-M
QCD_Pt_30_80_EMEnriched	33088888	11.2TB	/QCD_Pt_30_80_EMEnriched_TuneZ2star_8TeV_pythia6/tkhurshi-M
QCD_Pt_80_170_EMEnriched	34542763	12.5TB	/QCD_Pt_80_170_EMEnriched_TuneZ2star_8TeV_pythia6/tkhurshi-M
QCD_Pt_20_MuEnriched	21484602	7.5TB	/QCD_Pt_20_MuEnrichedPt_15_TuneZ2star_8TeV_pythia6/tkhurshi-M
QCD_Pt_20_30_BCToE	1740229	573.4GB	/QCD_Pt_20_30_BCToE_TuneZ2star_8TeV_pythia6/tkhurshi-M
QCD_Pt_30_80_BCToE	2048152	700.6GB	/QCD_Pt_30_80_BCToE_TuneZ2star_8TeV_pythia6/tkhurshi-M
QCD_Pt_80_170_BCToE	1945525	707.6GB	/QCD_Pt_80_170_BCToE_TuneZ2star_8TeV_pythia6/tkhurshi-M
DYJetsToLL_M-10To50filter	7132223	2.3TB	/DYJetsToLL_M-10To50filter_8TeV-madgraph/tkhurshi-MuMu
DYJetsToLL M-50	30459503	10TB	/DYJetsToLL_M-50_TuneZ2Star_8TeV-madgraph-tarball/tkhurshi
SYS			
TTJets_MassiveBinDECAY	6923750	2.7TB	/TTJets_MassiveBinDECAY_TuneZ2star_8TeV-madgraph-tauola/tkhurshi-M
TTJets_scaleup	5009488	2TB	/TTJets_scaleup_TuneZ2star_8TeV-madgraph-tauola/tkhurshi-M
TTJets_scaledown	5387181	2.2TB	/TTJets_scaledown_TuneZ2star_8TeV-madgraph-tauola/tkhurshi-M
TTJets_matchingup	5415010	2.1TB	/TTJets_matchingup_TuneZ2star_8TeV-madgraph-tauola/tkhurshi-M
TTJets_matchingdown	5476728	2.2TB	/TTJets_matchingdown_TuneZ2star_8TeV-madgraph-tauola/tkhurshi-M
TTJets_mass161_5	5369214	2.1TB	/TTJets_mass161_5_TuneZ2star_8TeV-madgraph-tauola/tkhurshi-M
TTJets_mass163_5	5365348	2.1TB	/TTJets_mass163_5_TuneZ2star_8TeV-madgraph-tauola/tkhurshi-M
TTJets_mass166_5	4469095	1.8TB	/TTJets_mass166_5_TuneZ2star_8TeV-madgraph-tauola/tkhurshi-M
TTJets_mass169_5	5202817	2.1TB	/TTJets_mass169_5_TuneZ2star_8TeV-madgraph-tauola/tkhurshi-M
TTJets_mass175_5	5186494	2.1TB	/TTJets_mass175_5_TuneZ2star_8TeV-madgraph-tauola/tkhurshi-M
TTJets_mass178_5	4733483	1.9TB	/TTJets_mass178_5_TuneZ2star_8TeV-madgraph-tauola/tkhurshi-M
TTJets_mass181_5	5145140	2TB	/TTJets_mass181_5_TuneZ2star_8TeV-madgraph-tauola/tkhurshi-M
TTJets_mass184_5	5249525	2.1TB	/TTJets_mass184_5_TuneZ2star_8TeV-madgraph-tauola/tkhurshi-M
TT	32852589	13.1TB	/TT_8TeV-mcatnlo/tkhurshi-MuMu_TT_8TeV-mcatnlo_Summe

TT_noCorr	24766326	9.8TB	/TT_noCorr_8TeV-mcatnlo/tkhurshi-MuMu_TT_noCorr_8TeV-
TT_CT10	21675970	8.6TB	/TT_CT10_TuneZ2star_8TeV-powheg-tauola/tkhurshi-MuMu_T
TTTo2L2Nu2B	10783509	4.1TB	/TTTo2L2Nu2B_8TeV-powheg-pythia6/tkhurshi-MuMu_TTTo2

• **Data: DoubleElectron** (Without Z-Veto and MET Cut)

Data			
AOD	No of Events	Size	PATTuple
Run2012A 22Jan2013-v1	12964286	2.9TB	/DoubleElectron/tkhurshi-DoubleElectron_Run2012A-22Jan2013-v1_corrected_1
Run2012B 22Jan2013-v1	23571931	6.4TB	/DoubleElectron/tkhurshi-DoubleElectron_Run2012B-22Jan2013-v1_corrected_1
Run2012C 22Jan2013-v1	33843769	9.4TB	/DoubleElectron/tkhurshi-DoubleElectron_Run2012C-22Jan2013-v1_corrected_1
Run2012D 22Jan2013-v1	34526899	10.1TB	/DoubleElectron/tkhurshi-DoubleElectron_Run2012D-22Jan2013-v1_corrected_1
MC			
FullLept MGDecays	12011428	4.6TB	/TTJets_FullLeptMGDecays_8TeV-madgraph-tauola/tkhurshi-EIEI_TTJets_FullL
SemiLept MGDecays	24963676	9.8TB	/TTJets_SemiLeptMGDecays_8TeV-madgraph-tauola/tkhurshi-EIEI_TTJets_Sem
Hadronic MGDecays	10537444	4.2TB	/TTJets_HadronicMGDecays_8TeV-madgraph/tkhurshi-EIEI_TTJets_HadronicM
T_tW-channel	497658	188.6GB	/T_tW-channel-DR_TuneZ2star_8TeV-powheg-tauola/tkhurshi-EIEI_T_tW-chan
Tbar tW-channel	493460	187.2GB	/Tbar_tW-channel-DR_TuneZ2star_8TeV-powheg-tauola/tkhurshi-EIEI_Tbar_tW

| WJets ToLNu v2 | 57709905 | 18.4TB |

/WJetsToLNu_TuneZ2Star_8TeV-madgraph-tarball/tkhurshi-EIEI_WJetsToLNu_TuneZ2Sta:

This topic: CMSPublic > DiLeptonAnalysis

Topic revision: r138 - 2017-10-17 - TaimoorKhurshid



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