

# Table of Contents

<b>DATA/MC production (the new one !)</b> .....	<b>1</b>
Cut flow table.....	1
comparison DATA/MC (PAS plots).....	1
data.....	1
MC.....	1
<b>DATA/MC production (first production with wrong definition of <math>\sigma(\eta,\eta)</math>)</b> .....	<b>3</b>
data.....	3
Monte-Carlo.....	3
<b>Macro[MC].C (new version)</b> .....	<b>4</b>
Data.....	4
MC.....	4
Comparison DATA/MC.....	4
<b>Macros[MC].C</b> .....	<b>6</b>
Data.....	6
MC.....	6
<b>fraction under/above the R9 cut</b> .....	<b>7</b>
Barrel.....	7
Endcap.....	7

# DATA/MC production (the new one !)

## Cut flow table

TheCutFlowTable36X

## comparison DATA/MC (PAS plots)


The latest PAS plots are here [↗](#)

The latest DiPhotons plots are here [↗](#)


## data

DATASET NAME	Run range	
/MinimumBias/Commissioning10-SD_EG-Jun14thSkim_v1/RECO	131511-<135808	/sps/cms/hbrun/dataset_3_6_1_
/EG/Run2010A-Jun14thReReco_v1/RECO	135808-137436	/sps/cms/hbrun/dataset_3_6_1_
/EG/Run2010A-PromptReco-v4/RECO	138564-140401	/sps/cms/hbrun/dataset_3_6_1_
/EG/Run2010A-Jul16thReReco-v2/RECO	139968-140159	/sps/cms/hbrun/dataset_3_6_1_
/EG/Run2010A-PromptReco-v4/RECO	141956-143201	/sps/cms/hbrun/dataset_3_6_1_
/EG/Run2010A-PromptReco-v4/RECO	143318-144114	/sps/cms/hbrun/dataset_3_6_1_

## MC

 please find the config file to use here :

/sps/cms/hbrun/CMSSW\_3\_6\_2/src/Morgan/IpnTreeProducer/test/toto\_MC.py

DATASET NAME	
<b>QCD</b>	
/QCD_Pt20_TuneD6T_7TeV-pythia6/Summer10-START36_V10-v1/GEN-SIM-RECO	/sps/cms/falkiewi/CMSSW
/QCD_Pt15/Summer10-START36_V9_S09-v1/GEN-SIM-RECODEBUG	/sps/cms/falkiewi/CMSSW
/QCD_Pt30/Summer10-START36_V9_S09-v1/GEN-SIM-RECODEBUG	/sps/cms/falkiewi/CMSSW
/QCD_Pt80/Summer10-START36_V9_S09-v1/GEN-SIM-RECODEBUG	/sps/cms/falkiewi/CMSSW
/QCD_Pt80/Summer10-START36_V9_S09-v1/GEN-SIM-RECODEBUG	/sps/cms/falkiewi/CMSSW
/QCD_Pt170/Summer10-START36_V9_S09-v1/GEN-SIM-RECODEBUG	 /sps/cms/hbrun/datas
/QCD_Pt300/Summer10-START36_V9_S09-v1/GEN-SIM-RECODEBUG	/sps/cms/hbrun/dataset
/QCD_Pt470/Summer10-START36_V9_S09-v1/GEN-SIM-RECODEBUG	/sps/cms/hbrun/dataset
<b>Photon-Jet</b>	
/PhotonJet_Pt15/Summer10-START36_V9_S09-v1/GEN-SIM-RECODEBUG	/sps/cms/hbrun/dataset
/PhotonJet_Pt30/Summer10-START36_V9_S09-v1/GEN-SIM-RECODEBUG	/sps/cms/hbrun/dataset
/PhotonJet_Pt80/Summer10-START36_V9_S09-v1/GEN-SIM-RECODEBUG	/sps/cms/hbrun/dataset
/PhotonJet_Pt170/Summer10-START36_V9_S09-v1/GEN-SIM-RECODEBUG	/sps/cms/hbrun/dataset
/PhotonJet_Pt300/Summer10-START36_V9_S09-v1/GEN-SIM-RECODEBUG	/sps/cms/hbrun/dataset

Wenu	
/Wenu/Summer10-START36_V9_S09-v1/GEN-SIM-RECO	/sps/cms/hbrun/dataset_
Zee	
/Zee/Summer10-START36_V9_S09-v1/GEN-SIM-RECO	/sps/cms/hbrun/dataset_
DiPhoton	
/DiPhotonBorn_Pt10to25/Summer10-START36_V9_S09-v1/GEN-SIM-RECODEBUG	/sps/cms/obondu/CMSSW_1
/DiPhotonBorn_Pt25to250/Summer10-START36_V9_S09-v1/GEN-SIM-RECODEBUG	/sps/cms/obondu/CMSSW_1
/DiPhotonBorn_Pt250toInf/Summer10-START36_V9_S09-v1/GEN-SIM-RECODEBUG	/sps/cms/obondu/CMSSW_1
/DiPhotonBox_Pt10to25/Summer10-START36_V9_S09-v1/GEN-SIM-RECODEBUG	/sps/cms/obondu/CMSSW_1
/DiPhotonBox_Pt25to250/Summer10-START36_V9_S09-v2/GEN-SIM-RECODEBUG	/sps/cms/obondu/CMSSW_1
/DiPhotonBox_Pt250toInf/Summer10-START36_V9_S09-v1/GEN-SIM-RECODEBUG	/sps/cms/obondu/CMSSW_1

Notes:

- The DiPhoton samples have been produced with the RECO\_3\_6\_2\_v3 tag of IpnTreeProducer

# DATA/MC production (first production with wrong definition of sigma(ieta,ieta))

## data

DATASET NAME	Run range	
/MinimumBias/Commissioning10-SD_EG-Jun14thSkim_v1/RECO	131511-<135808	/sps/cms/hbrun/dataset_3_6_1
/EG/Run2010A-Jun14thReReco_v1/RECO	135808-137436	/sps/cms/hbrun/dataset_3_6_1
/EG/Run2010A-PromptReco-v4/RECO	138564-139459	/sps/cms/hbrun/dataset_3_6_1
	139779-139790	

## Monte-Carlo

DATASET NAME	address on SPS
<b>QCD</b>	
/QCD_Pt15/Summer10-START36_V9_S09-v1/GEN-SIM-RECODEBUG	/sps/cms/hbrun/dataset_3_6_2/QCD-
/QCD_Pt30/Summer10-START36_V9_S09-v1/GEN-SIM-RECODEBUG	/sps/cms/hbrun/dataset_3_6_2/QCD-
/QCD_Pt80/Summer10-START36_V9_S09-v1/GEN-SIM-RECODEBUG	/sps/cms/hbrun/dataset_3_6_2/QCD-
/QCD_Pt170/Summer10-START36_V9_S09-v1/GEN-SIM-RECODEBUG	/sps/cms/hbrun/dataset_3_6_2/QCD-
/QCD_Pt300/Summer10-START36_V9_S09-v1/GEN-SIM-RECODEBUG	/sps/cms/hbrun/dataset_3_6_2/QCD-
/QCD_Pt470/Summer10-START36_V9_S09-v1/GEN-SIM-RECODEBUG	/sps/cms/hbrun/dataset_3_6_2/QCD-
<b>PhotonJet</b>	
/PhotonJet_Pt15/Summer10-START36_V9_S09-v1/GEN-SIM-RECODEBUG	/sps/cms/hbrun/dataset_3_6_2/photor
/PhotonJet_Pt30/Summer10-START36_V9_S09-v1/GEN-SIM-RECODEBUG	/sps/cms/hbrun/dataset_3_6_2/photor
/PhotonJet_Pt80/Summer10-START36_V9_S09-v1/GEN-SIM-RECODEBUG	/sps/cms/hbrun/dataset_3_6_2/photor
/PhotonJet_Pt170/Summer10-START36_V9_S09-v1/GEN-SIM-RECODEBUG	
/PhotonJet_Pt300/Summer10-START36_V9_S09-v1/GEN-SIM-RECODEBUG	

# Macro[MC].C (new version)

## Data

	Commissioning10-SD_EG-Jun14thSkim_v1	Run2010A-Jun14thReReco_v1	Run2010B-Jun14thReReco_v1
total events	805388	398625	436056
events with HLT_photon15	198939	97350	159097
total photons	265913	124969	218139
if (myphoton->superCluster() == 0 )	265913	124969	218139
kWeird	158363	75088	137166
kOutOfTime	155381	73685	134652
if (Photon_HoE > 0.05)	91980	43713	790716
kBad	91980	43713	790716
if ( ( abs_eta>2.5 )    ( abs_eta>1.4442 && abs_eta<1.566 ) )	82859	39402	706006
if ( scRawEt<20.0 )	14263	6672	108824

## MC

	QCD 15	QCD 30	QCD 80	QCD 170	QCD 300	All normalized to QCD 15 to infinity	Photon Jet 15	Photon Jet 30	Photon Jet 80
total events	408279	1539548	1711067	2525905	2028905	408279	759602	782912	1189085
pt hat cut	262148	1484359	1658712	2515841	2028905		661919	756611	1134018
event with HLT_photon15	26165	414685	978913	1815800	1926010	68638,89	520542	716835	1102148
total photons	36235	801057	2524752	5061672	6558228	120322,61	712795	1262552	2308327
if (myphoton->superCluster() == 0 )	36235	801057	2524752	5061672	6558228	120322,61	712795	1262552	2308327
kWeird	36235	801056	2524744	5061670	6558215	120322,49	712791	1262544	2308303
kOutOfTime	36230	801050	2524730	5061638	6558169	120316,88	712789	1262537	2308288
if (Photon_HoE > 0.05)	27869	433751	858718	1321945	1110293	71753,03	642255	966783	1476757
kBad	27869	433751	858718	1321945	1110293	71753,03	642255	966783	1476757
if ( ( abs_eta>2.5 )    ( abs_eta>1.4442 && abs_eta<1.566 ) )	25224	403798	810274	1248253	1046803	66111,94	586465	882322	1357009
if ( scRawEt<20.0 )	2711	88709	222166	277200	161924	11828,89	196475	643936	1053191

## Comparison DATA/MC

	QCD 15 normalized to	Photon,Jet 15 normalized to lumi	sum MC normalized to	data

ThejulyProductionpage < Main < TWiki

	lumi		lumi	
<b>total events</b>	4271872	8915,52	4280787,52	5564576
event with HLT_photon15	718176,91	7196,86	725373,77	1887260
<b>total photons</b>	1258949,8	10293,84	1269243,7	2572278
if ( myphoton->superCluster() == 0 )	1258949,85	10293,84	1269243,7	2572278
kWeird	1258948,60	10293,78	1269242,38	1605112
kOutOfTime	1258889,90	10293,75	1269183,65	1575586
if ( Photon_HoE > 0.05)	750760,53	9004,19	759764,72	926409
kBad	750760,5	9004,19	759764,72	926409
if ( ( abs_eta>2.5)    ( abs_eta>1.4442 && abs_eta<1.566 ) )	691737,13	8221,6	699958,81	828267
if ( scRawEt<20.0 )	123767,09	3284,8	127051,96	129759

# Macros[MC].C

## Data

	Commissioning10-SD_EG-Jun14thSkim_v1	Run2010A-Jun14thReReco_v1	Run2010B-Jun14thReReco_v1
<b>total events</b>	805110	398625	474620
events with HLT_photon15	198858	97350	174023
<b>total photons</b>	265806	130691	238447
if (myphoton->superCluster() == 0 )	265806	130691	238447
kWeird	158302	78490	149921
kOutOfTime	155322	77016	147180
if (Photon_HoE > 0.05)	91941	45647	864466
kBad	91941	45647	864466
if ( ( abs_eta>2.5 )    ( abs_eta>1.4442 && abs_eta<1.566 ) )	82823	41150	771809
if ( scRawEt<20.0 )	14254	6945	118980

## MC

	QCD 15	QCD 30	QCD 80	QCD 170	All normalized to QCD 15 to infinity	All normalized to data
<b>total events</b>	406361	1218209	1286982	1940642	557165,65	
pt hat cut	260931	1174523	1247644	1940642	406361	4443600
event with HLT_photon15	26052	328591	736686	1402366	68379,71	747739,27
<b>total photons</b>	36071	634421	1900003	3913379	119829,13	1310344,06
if (myphoton->superCluster() == 0 )	36071	634421	1900003	3913379	119829,13	1310344,06
kWeird	36071	634421	1900000	3913377	119829,120	1310343,94
kOutOfTime	36066	634415	1899988	3913352	119823,35	1310280,85
if (Photon_HoE > 0.05)	27742	343269	646752	1019393	71426,08	781051,64
kBad	27742	343269	646752	1019393	71426,08	781051,64
if ( ( abs_eta>2.5 )    ( abs_eta>1.4442 && abs_eta<1.566 ) )	2697	70228	167308	213434	11776,34	128775,50
if ( scRawEt<20.0 )	2697	70228	167308	213434	11776,34	128775,50

# fraction under/above the R9 cut

## Barrel

	r9 < 0.94	r9 >= 0.94	tot
data	90912 (90.40%)	9657 (9.6%)	100569
MC	7562.41 (90.97%)	751.048 (9.03)	8313

## Endcap

	r9 < 0.95	r9 >= 0.95	tot
data	36041 (90.99%)	3569 (9.01%)	39610
MC	3175,18 (91.71%)	287.704 (8.30%)	3462

-- HuguesBrun - 09-Jul-2010

---

This topic: [Main > ThejulyProductionpage](#)

Topic revision: [r57 - 2010-11-11 - HuguesBrun](#)



Copyright &© 2008-2021 by the contributing authors. All material on this collaboration platform is the property of the contributing authors.

or Ideas, requests, problems regarding TWiki? use [Discourse](#) or [Send feedback](#)