

-- BaharehHojatollahRoozbahani - 2017-02-01

**JSON File:**

/afs/cern.ch/cms/CAF/CMSCOMM/COMM\_DQM/certification/Collisions16/13TeV/ReReco/Final/Cert\_271036-2840

/afs/cern.ch/cms/CAF/CMSCOMM/COMM\_DQM/certification/Collisions16/13TeV/Final/Cert\_271036-284044\_13TeV

**Data (Single Muon: Run2016 03Feb2017 Re-miniAOD)**

PD	Nevt	# of Read Events	Runs	Lint, 1/fb	Nevt Skimm
/SingleMuon/Run2016B-03Feb2017_ver2-v2/MINIAOD	158,145,722	154,053,125	[273150--275376]	5.784	405,46
/SingleMuon/Run2016C-03Feb2017-v1/MINIAOD	67,441,308	64,717,990	[275656--276283]	2.573	178,62
/SingleMuon/Run2016D-03Feb2017-v1/MINIAOD	98,017,996	96,656,720	[276315--276811]	4.248	292,32
/SingleMuon/Run2016E-03Feb2017-v1/MINIAOD	90,963,495	87,361,350	[276831--277420]	4.008	268,11
/SingleMuon/Run2016F-03Feb2017-v1/MINIAOD	65,489,554	65,046,240	[277932--278808]	3.102	208,23
/SingleMuon/Run2016G-03Feb2017-v1/MINIAOD	149,916,849	147,945,461	[278820--280385]	7.540	538,29
/SingleMuon/Run2016H-03Feb2017_ver2-v1/MINIAOD	169,642,135	166,747,651	[281207--281265]	8.391	598,95
/SingleMuon/Run2016H-03Feb2017_ver3-v1/MINIAOD	4,393,029	4,389,906	[284036--284068]	0.215	15,634

- Total lumi Lint(SingleMuonPD Run2016) = 35.861/fb. Official lumi from LUMI POG for 2016 is 35.867/fb [1](#).
  - ◆ Lint(SingleMuonPD, Run2016BCD) = 12.605/fb
  - ◆ Lint(SingleMuonPD, Run2016EF) = 7.111/fb
  - ◆ Lint(SingleMuonPD, Run2016GH) = 16.146/fb

**Data (: Run2016 03Feb2017 Re-miniAOD)**

PD	Nevt	# of Read Events	Runs	Lint, 1/fb	Nevt Skim
/SingleElectron/Run2016B-03Feb2017_ver1-v1/MINIAOD	1422,819	0	[272760--273017]	0	0
/SingleElectron/Run2016B-03Feb2017_ver2-v2/MINIAOD	246,440,440	234,313,800	[273150--276283]	5.764	325,7
/SingleElectron/Run2016C-03Feb2017-v1/MINIAOD	97,259,854	91,813,020	[275656--276283]	2.566	146,7
/SingleElectron/Run2016D-03Feb2017-v1/MINIAOD	148,167,727	145,500,200	[276315--276811]	4.227	234,7
/SingleElectron/Run2016E-03Feb2017-v1/MINIAOD	117,321,545	112,228,200	[276831--277420]	4.009	211,7
/SingleElectron/Run2016F-03Feb2017-v1/MINIAOD	70,593,532	69,986,090	[277932--278509]	3.094	142,7
/SingleElectron/Run2016G-03Feb2017-v1/MINIAOD	153,330,123	152,566,200	[278820--280251]	7.514	344,7
/SingleElectron/Run2016H-03Feb2017_ver2-v1/MINIAOD	125,826,667	122,740,300	[282033--284035]	8.310	368,7
/SingleElectron/Run2016H-03Feb2017_ver3-v1/MINIAOD	3,191,585	3,189,661	[284036--284044]	0.215	9,50

- Total lumi Lint(SingleElectronPD Run2016) = 35.699/fb. Official lumi from LUMI POG for 2016 is 35.867/fb [1](#).
  - ◆ Lint(SingleElectronPD, Run2016BCD) = 12.557/fb
  - ◆ Lint(SingleElectronPD, Run2016EF) = 7.103/fb
  - ◆ Lint(SingleElectronPD, Run2016GH) = 16.039/fb

**Data (Double Electron: Run2016 03Feb2017 Re-miniAOD)**

PD	Nevt	# of Read Events	Runs	Lint, 1/fb	Nevt Skimm
/DoubleEG/Run2016B-03Feb2017_ver2-v2/MINIAOD	143,073,268	136,667,419	[273150--275376]	5.788	272,582
/DoubleEG/Run2016C-03Feb2017-v1/MINIAOD	47,677,856	45,523,420	[275656--276283]	2.573	118,066

Data (Single Muon: Run2016 03Feb2017 Re-miniAOD)

/DoubleEG/Run2016D-03Feb2017-v1/MINIAOD	53,324,960	52,423,940	[276315--276811]	4.248	175,789
/DoubleEG/Run2016E-03Feb2017-v1/MINIAOD	49,877,710	47,328,820	[276831--277420]	4.009	162,638
/DoubleEG/Run2016F-03Feb2017-v1/MINIAOD	34,577,629	33,972,060	[277932--278808]	3.102	133,471
/DoubleEG/Run2016G-03Feb2017-v1/MINIAOD	78,764,716	76,538,892	[278820--280385]	7.540	350,207
/DoubleEG/Run2016H-03Feb2017_ver2-v1/MINIAOD	83,361,083	80,546,338	[281613--284035]	8.391	391,991
/DoubleEG/Run2016H-03Feb2017_ver3-v1/MINIAOD	2,027,651	2,022,709	[284036--284044]	0.215	10,120

- Total lumi Lint(DoubleEG, Run2016) = 35.866/fb. Official lumi from LUMI POG for 2016 is 35.867/fb [1](#).
- ◆ Lint(DoubleEGPD, Run2016BCD) = 12.609/fb
- ◆ Lint(DoubleEGPD, Run2016EF) = 7.111/fb
- ◆ Lint(DoubleEGPD, Run2016GH) = 16.146/fb

## Data (23Sep2016)

PD	Nevt	# of Read Events	Runs	Lint, 1/fb	Nevt Skimmed
/SingleMuon/Run2016B-23Sep2016-v1/MINIAOD	2,789,243	0	[272760--273017]	0	0
/SingleMuon/Run2016B-23Sep2016-v3/MINIAOD	158,145,722	154,054,252	[273150--275376]	5.784	360750
/SingleMuon/Run2016C-23Sep2016-v1/MINIAOD	67,441,308	64,718,679	[275656--276283]	2.573	168095
/SingleMuon/Run2016D-23Sep2016-v1/MINIAOD	98,017,996	96,657,799	[276315--276811]	4.248	272587
/SingleMuon/Run2016E-23Sep2016-v1/MINIAOD	90,984,718	87,361,299	[276831--277420]	4.009	265,580
/SingleMuon/Run2016F-23Sep2016-v1/MINIAOD	65,235,075	65,033,768	[277772--278808]	3.102	209,275
/SingleMuon/Run2016G-23Sep2016-v1/MINIAOD	149,916,849	147,941,951	[278820--280385]	7.540	476,225
/SingleMuon/Run2016H-PromptReco-v1/MINIAOD	29,162	0	[281085--281167]	0	0
/SingleMuon/Run2016H-PromptReco-v2/MINIAOD	171,134,793	166,742,965	[281207--281265]	8.391	544,357
/SingleMuon/Run2016H-PromptReco-v3/MINIAOD	4,393,222	4,389,914	[284036--284068]	0.215	13,695

- Total lumi Lint(SingleMuonPD, Run2016) = 35.862/fb. Official lumi from LUMI POG for 2016 is 35.867/fb [1](#).
- ◆ Lint(SingleMuonPD, Run2016BCD) = 12.605/fb
- ◆ Lint(SingleMuonPD, Run2016EF) = 7.111/fb
- ◆ Lint(SingleMuonPD, Run2016GH) = 16.146/fb

## MC Background

Process	XS,pb	
ttbar	831.76	<a href="#">TT_TuneCUETP8M2T4_13TeV-powheg-pythia8</a> <a href="#">TT_TuneCUETP8M2T4_13TeV-powheg-pythia8, backup</a>
ttbar		<a href="#">/TT_Mtt-700to1000_TuneCUETP8M2T4_13TeV-powheg-pythia8/RunIISummer16</a>
ttbar		<a href="#">/TT_Mtt-1000toInf_TuneCUETP8M2T4_13TeV-powheg-pythia8/RunIISummer16</a>
Low mass DYjets	18610	<a href="#">DYJetsToLL_M-10to50_TuneCUETP8M1_13TeV-madgraphMLM-pythia8</a>
High mass DYjets	$1921.8 \times 3 = 5765.4$	<a href="#">DYJetsToLL_M-50_TuneCUETP8M1_13TeV-madgraphMLM-pythia8, ext1</a> <a href="#">DYJetsToLL_M-50_TuneCUETP8M1_13TeV-madgraphMLM-pythia8, ext2</a>
Single top s-channel	11.36	<a href="#">ST_s-channel_4f_InclusiveDecays_13TeV-amcatnlo-pythia8</a>
Single top t-channel	136.02	<a href="#">ST_t-channel_top_4f_inclusiveDecays_13TeV-powhegV2-madspin-pythia8</a>
Single antitop t-channel	80.95	<a href="#">ST_t-channel_antitop_4f_inclusiveDecays_13TeV-powhegV2-madspin-pythia8</a>

Single top tW-channel	35.85	ST_tW_top_5f_inclusiveDecays_13TeV-powheg-pythia8_TuneCUETP8M1 <a href="#">↗</a>
Single antitop tW-channel	35.85	ST_tW_antitop_5f_inclusiveDecays_13TeV-powheg-pythia8_TuneCUETP8M1 <a href="#">↗</a>
WtoLnu+jets	61526.7	WJetsToLNu_TuneCUETP8M1_13TeV-madgraphMLM-pythia8 <a href="#">↗</a> WJetsToLNu_TuneCUETP8M1_13TeV-madgraphMLM-pythia8, ext2 <a href="#">↗</a>
WW	118.7	WW_TuneCUETP8M1_13TeV-pythia8 <a href="#">↗</a> WW_TuneCUETP8M1_13TeV-pythia8, extension <a href="#">↗</a>
WZ	47.1	WZ_TuneCUETP8M1_13TeV-pythia8 <a href="#">↗</a> WZ_TuneCUETP8M1_13TeV-pythia8, extension <a href="#">↗</a>
ZZ	16.5	ZZ_TuneCUETP8M1_13TeV-pythia8 <a href="#">↗</a> ZZ_TuneCUETP8M1_13TeV-pythia8, extension <a href="#">↗</a>
QCD MuEnriched	139803000*0.01182	QCD_Pt-30to50_MuEnrichedPt5_TuneCUETP8M1_13TeV_pythia8 <a href="#">↗</a>
QCD MuEnriched	19222500*0.02276	QCD_Pt-50to80_MuEnrichedPt5_TuneCUETP8M1_13TeV_pythia8 <a href="#">↗</a>
QCD MuEnriched	2758420*0.03844	QCD_Pt-80to120_MuEnrichedPt5_TuneCUETP8M1_13TeV_pythia8 <a href="#">↗</a> QCD_Pt-80to120_MuEnrichedPt5_TuneCUETP8M1_13TeV_pythia8, ext1 <a href="#">↗</a>
QCD MuEnriched	469797*0.05362	QCD_Pt-120to170_MuEnrichedPt5_TuneCUETP8M1_13TeV_pythia8 <a href="#">↗</a>
QCD MuEnriched	117989*0.07335	QCD_Pt-170to300_MuEnrichedPt5_TuneCUETP8M1_13TeV_pythia8 <a href="#">↗</a> QCD_Pt-170to300_MuEnrichedPt5_TuneCUETP8M1_13TeV_pythia8, ext1 <a href="#">↗</a>
QCD MuEnriched	7820.25*0.10196	QCD_Pt-300to470_MuEnrichedPt5_TuneCUETP8M1_13TeV_pythia8 <a href="#">↗</a> QCD_Pt-300to470_MuEnrichedPt5_TuneCUETP8M1_13TeV_pythia8, ext1 <a href="#">↗</a> QCD_Pt-300to470_MuEnrichedPt5_TuneCUETP8M1_13TeV_pythia8, ext2 <a href="#">↗</a>
QCD MuEnriched	645.528 *0.12242	QCD_Pt-470to600_MuEnrichedPt5_TuneCUETP8M1_13TeV_pythia8 <a href="#">↗</a> QCD_Pt-470to600_MuEnrichedPt5_TuneCUETP8M1_13TeV_pythia8, ext1 <a href="#">↗</a> QCD_Pt-470to600_MuEnrichedPt5_TuneCUETP8M1_13TeV_pythia8, ext2 <a href="#">↗</a>
QCD MuEnriched	187.109*0.13412	QCD_Pt-600to800_MuEnrichedPt5_TuneCUETP8M1_13TeV_pythia8 <a href="#">↗</a> QCD_Pt-600to800_MuEnrichedPt5_TuneCUETP8M1_13TeV_pythia8, ext1 <a href="#">↗</a>
QCD MuEnriched	32.3486*0.14552	QCD_Pt-800to1000_MuEnrichedPt5_TuneCUETP8M1_13TeV_pythia8 <a href="#">↗</a> QCD_Pt-800to1000_MuEnrichedPt5_TuneCUETP8M1_13TeV_pythia8, ext1 <a href="#">↗</a> QCD_Pt-800to1000_MuEnrichedPt5_TuneCUETP8M1_13TeV_pythia8, ext2 <a href="#">↗</a>
QCD MuEnriched	10.4305*0.15544	QCD_Pt-1000toInf_MuEnrichedPt5_TuneCUETP8M1_13TeV_pythia8 <a href="#">↗</a> QCD_Pt-1000toInf_MuEnrichedPt5_TuneCUETP8M1_13TeV_pythia8, ext1 <a href="#">↗</a>
QCD EmEnriched	136000000*0.073	QCD_Pt-30to50_EMEnriched_TuneCUETP8M1_13TeV_pythia8 <a href="#">↗</a> QCD_Pt-30to50_EMEnriched_TuneCUETP8M1_13TeV_pythia8, ext1 <a href="#">↗</a>
QCD EmEnriched	19800000*0.146	QCD_Pt-50to80_EMEnriched_TuneCUETP8M1_13TeV_pythia8 <a href="#">↗</a> QCD_Pt-50to80_EMEnriched_TuneCUETP8M1_13TeV_pythia8, ext1 <a href="#">↗</a>
QCD EmEnriched	2800000*0.125	QCD_Pt-80to120_EMEnriched_TuneCUETP8M1_13TeV_pythia8 <a href="#">↗</a> QCD_Pt-80to120_EMEnriched_TuneCUETP8M1_13TeV_pythia8, ext1 <a href="#">↗</a>
QCD EmEnriched	477000*0.132	QCD_Pt-120to170_EMEnriched_TuneCUETP8M1_13TeV_pythia8 <a href="#">↗</a> QCD_Pt-120to170_EMEnriched_TuneCUETP8M1_13TeV_pythia8, ext1 <a href="#">↗</a>
QCD EmEnriched	114000*0.165	QCD_Pt-170to300_EMEnriched_TuneCUETP8M1_13TeV_pythia8 <a href="#">↗</a>
QCD EmEnriched	9000*0.15	QCD_Pt-300toInf_EMEnriched_TuneCUETP8M1_13TeV_pythia8 <a href="#">↗</a>
QCD bcToE	159068000*0.00255	QCD_Pt_30to80_bcToE_TuneCUETP8M1_13TeV_pythia8 <a href="#">↗</a>
QCD bcToE	3221000*0.01183	QCD_Pt_80to170_bcToE_TuneCUETP8M1_13TeV_pythia8 <a href="#">↗</a>
QCD bcToE	105771*0.02492	QCD_Pt_170to250_bcToE_TuneCUETP8M1_13TeV_pythia8 <a href="#">↗</a>
QCD bcToE	21094.1*0.03375	QCD_Pt_250toInf_bcToE_TuneCUETP8M1_13TeV_pythia8 <a href="#">↗</a>

## MC Signal

Process	XS,pb	dataset	Nevt	# Re Eve
RS Gluon -> ttbar	1.3*275.9	RSGluonToTT_M-500_TuneCUETP8M1_13TeV-pythia8 <a href="#">↗</a>	100,000	99,9
RS Gluon -> ttbar	1.3*62.41	RSGluonToTT_M-750_TuneCUETP8M1_13TeV-pythia8 <a href="#">↗</a>	100,000	100,
RS Gluon -> ttbar	1.3*20.05	RSGluonToTT_M-1000_TuneCUETP8M1_13TeV-pythia8 <a href="#">↗</a>	98,563	98,5
RS Gluon -> ttbar	1.3*7.92	RSGluonToTT_M-1250_TuneCUETP8M1_13TeV-pythia8 <a href="#">↗</a>	100,000	99,9
RS Gluon -> ttbar	1.3*3.519	RSGluonToTT_M-1500_TuneCUETP8M1_13TeV-pythia8 <a href="#">↗</a>	100,000	99,9
RS Gluon -> ttbar	1.3*0.9528	RSGluonToTT_M-2000_TuneCUETP8M1_13TeV-pythia8 <a href="#">↗</a>	100,000	99,9
RS Gluon -> ttbar	1.3*0.3136	RSGluonToTT_M-2500_TuneCUETP8M1_13TeV-pythia8 <a href="#">↗</a>	100,000	99,9
RS Gluon -> ttbar	1.3*0.1289	RSGluonToTT_M-3000_TuneCUETP8M1_13TeV-pythia8 <a href="#">↗</a>	99,747	99,7
RS Gluon -> ttbar	1.3*0.05452	RSGluonToTT_M-3500_TuneCUETP8M1_13TeV-pythia8 <a href="#">↗</a>	99,491	99,4
RS Gluon -> ttbar	1.3*0.02807	RSGluonToTT_M-4000_TuneCUETP8M1_13TeV-pythia8 <a href="#">↗</a>	99,118	99,1
RS Gluon -> ttbar	1.3*0.01603	RSGluonToTT_M-4500_TuneCUETP8M1_13TeV-pythia8 <a href="#">↗</a>	99,597	99,5
RS Gluon -> ttbar	1.3*0.009095	RSGluonToTT_M-5000_TuneCUETP8M1_13TeV-pythia8 <a href="#">↗</a>	98,413	98,4
Z' -> ttbar	58.3131	ZprimeToTT_M-500_W-5_TuneCUETP8M1_13TeV-madgraphMLM-pythia8 <a href="#">↗</a>	102,461	102,
Z' -> ttbar	536.522	ZprimeToTT_M-500_W-50_TuneCUETP8M1_13TeV-madgraphMLM-pythia8 <a href="#">↗</a>	101,189	101,
Z' -> ttbar	13.6051	ZprimeToTT_M-750_W-7p5_TuneCUETP8M1_13TeV-madgraphMLM-pythia8 <a href="#">↗</a>	94,012	94,0
Z' -> ttbar	131.954	ZprimeToTT_M-750_W-75_TuneCUETP8M1_13TeV-madgraphMLM-pythia8 <a href="#">↗</a>	100,820	100,
Z' -> ttbar	4.50540	ZprimeToTT_M-1000_W-10_TuneCUETP8M1_13TeV-madgraphMLM-pythia8 <a href="#">↗</a>	103,786	103,
Z' -> ttbar	44.8526	ZprimeToTT_M-1000_W-100_TuneCUETP8M1_13TeV-madgraphMLM-pythia8 <a href="#">↗</a>	101,060	101,

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Z' -> ttbar	129.361	ZprimeToTT_M-1000_W-300_TuneCUETP8M1_13TeV-madgraphMLM-pythia8	79,475	79,4
Z' -> ttbar	1.80866	ZprimeToTT_M-1250_W-12p5_TuneCUETP8M1_13TeV-madgraphMLM-pythia8	102,832	102,
Z' -> ttbar	18.3735	ZprimeToTT_M-1250_W-125_TuneCUETP8M1_13TeV-madgraphMLM-pythia8	96,847	96,8
Z' -> ttbar	0.813716	ZprimeToTT_M-1500_W-15_TuneCUETP8M1_13TeV-madgraphMLM-pythia8	99,690	99,6
Z' -> ttbar	8.47610	ZprimeToTT_M-1500_W-150_TuneCUETP8M1_13TeV-madgraphMLM-pythia8	111,106	111,
Z' -> ttbar	0.205510	ZprimeToTT_M-2000_W-20_TuneCUETP8M1_13TeV-madgraphMLM-pythia8	202,556	202,
Z' -> ttbar	2.26215	ZprimeToTT_M-2000_W-200_TuneCUETP8M1_13TeV-madgraphMLM-pythia8	104,119	104,
Z' -> ttbar	7.74166	ZprimeToTT_M-2000_W-600_TuneCUETP8M1_13TeV-madgraphMLM-pythia8	114,009	113,
Z' -> ttbar	0.0617038	ZprimeToTT_M-2500_W-25_TuneCUETP8M1_13TeV-madgraphMLM-pythia8	100,288	100,
Z' -> ttbar	0.734314	ZprimeToTT_M-2500_W-250_TuneCUETP8M1_13TeV-madgraphMLM-pythia8	96,077	96,0
Z' -> ttbar	0.0205665	ZprimeToTT_M-3000_W-30_TuneCUETP8M1_13TeV-madgraphMLM-pythia8	91,900	91,8
Z' -> ttbar	0.272788	ZprimeToTT_M-3000_W-300_TuneCUETP8M1_13TeV-madgraphMLM-pythia8	189,126	189,
Z' -> ttbar	1.17252	ZprimeToTT_M-3000_W-900_TuneCUETP8M1_13TeV-madgraphMLM-pythia8	189,125	189,
Z' -> ttbar	0.00734662	ZprimeToTT_M-3500_W-35_TuneCUETP8M1_13TeV-madgraphMLM-pythia8	91,004	90,9
Z' -> ttbar	0.112874	ZprimeToTT_M-3500_W-350_TuneCUETP8M1_13TeV-madgraphMLM-pythia8	101,022	100,
Z' -> ttbar	0.00275870	ZprimeToTT_M-4000_W-40_TuneCUETP8M1_13TeV-madgraphMLM-pythia8	107,914	107,
Z' -> ttbar	0.0515542	ZprimeToTT_M-4000_W-400_TuneCUETP8M1_13TeV-madgraphMLM-pythia8	102,411	102,
Z' -> ttbar	0.288839	ZprimeToTT_M-4000_W-1200_TuneCUETP8M1_13TeV-madgraphMLM-pythia8	88,039	88,0
Z' -> ttbar	0.00109115	ZprimeToTT_M-4500_W-45_TuneCUETP8M1_13TeV-madgraphMLM-pythia8	100,306	100,
Z' -> ttbar	0.0259114	ZprimeToTT_M-4500_W-450_TuneCUETP8M1_13TeV-madgraphMLM-pythia8	84,504	84,4
Z' -> ttbar	0.000458135	ZprimeToTT_M-5000_W-50_TuneCUETP8M1_13TeV-madgraphMLM-pythia8	112,042	111,
Z' -> ttbar	0.0142839	ZprimeToTT_M-5000_W-500_TuneCUETP8M1_13TeV-madgraphMLM-pythia8	107,156	107,
Z' -> ttbar	0.0995997	ZprimeToTT_M-5000_W-1500_TuneCUETP8M1_13TeV-madgraphMLM-pythia8	91,038	91,0
Z' -> ttbar	0.000103407	ZprimeToTT_M-6000_W-60_TuneCUETP8M1_13TeV-madgraphMLM-pythia8	101,502	101,
Z' -> ttbar	0.00550276	ZprimeToTT_M-6000_W-600_TuneCUETP8M1_13TeV-madgraphMLM-pythia8	96,240	96,2
Z' -> ttbar	0.0434250	ZprimeToTT_M-6000_W-1800_TuneCUETP8M1_13TeV-madgraphMLM-pythia8	89,346	89,3

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Z' -> ttbar	0.0000571530	<a href="#">ZprimeToTT_M-6500_W-65_TuneCUETP8M1_13TeV-madgraphMLM-pythia8</a>	99,486	99,4
Z' -> ttbar	0.00374190	<a href="#">ZprimeToTT_M-6500_W-650_TuneCUETP8M1_13TeV-madgraphMLM-pythia8</a>	98,981	98,9
Z' -> ttbar	0.0305223	<a href="#">ZprimeToTT_M-6500_W-1950_TuneCUETP8M1_13TeV-madgraphMLM-pythia8</a>	93,074	93,0
Z' -> ttbar	0.0000349246	<a href="#">ZprimeToTT_M-7000_W-70_TuneCUETP8M1_13TeV-madgraphMLM-pythia8</a>	96,065	96,0
Z' -> ttbar	0.00265864	<a href="#">ZprimeToTT_M-7000_W-700_TuneCUETP8M1_13TeV-madgraphMLM-pythia8</a>	98,613	98,6
Z' -> ttbar	0.0221476	<a href="#">ZprimeToTT_M-7000_W-2100_TuneCUETP8M1_13TeV-madgraphMLM-pythia8</a>	96,402	96,3

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