



$\Delta R_{\text{min}}(l,j)$	$\Delta R_{\text{min}}(l,j)$
EG_SCALE_ALL	EG_SCALE_ALL
JET_BJES_Response	JET_BJES_Response
JET_EffectiveNP_Detector1	JET_EffectiveNP_Detector1
JET_EffectiveNP_Detector2	JET_EffectiveNP_Detector2
JET_EffectiveNP_Mixed1	JET_EffectiveNP_Mixed1
JET_EffectiveNP_Mixed2	JET_EffectiveNP_Mixed2
JET_EffectiveNP_Mixed3	JET_EffectiveNP_Mixed3
JET_EffectiveNP_Modelling1	JET_EffectiveNP_Modelling1
JET_EffectiveNP_Modelling2	JET_EffectiveNP_Modelling2
JET_EffectiveNP_Modelling3	JET_EffectiveNP_Modelling3
JET_EffectiveNP_Modelling4	JET_EffectiveNP_Modelling4
JET_EffectiveNP_Statistical1	JET_EffectiveNP_Statistical1
JET_EffectiveNP_Statistical2	JET_EffectiveNP_Statistical2
JET_EffectiveNP_Statistical3	JET_EffectiveNP_Statistical3
JET_EffectiveNP_Statistical4	JET_EffectiveNP_Statistical4
JET_EffectiveNP_Statistical5	JET_EffectiveNP_Statistical5
JET_EffectiveNP_Statistical6	JET_EffectiveNP_Statistical6
JET_Electroncalibration_Modelling	JET_Electroncalibration_Modelling
JET_Electroncalibration_NonClosure_2016data	JET_Electroncalibration_NonClosure_2016data
JET_Electroncalibration_NonClosure_highE	JET_Electroncalibration_NonClosure_highE
JET_Electroncalibration_NonClosure_negEta	JET_Electroncalibration_NonClosure_negEta
JET_Electroncalibration_NonClosure_posEta	JET_Electroncalibration_NonClosure_posEta
JET_Electroncalibration_TotalStat	JET_Electroncalibration_TotalStat
JET_Flavor_Composition	JET_Flavor_Composition
JET_Flavor_Response	JET_Flavor_Response
JET_JER_DataVsMC_MC16	JET_JER_DataVsMC_MC16
JET_JER_EffectiveNP_10	JET_JER_EffectiveNP_10
JET_JER_EffectiveNP_11	JET_JER_EffectiveNP_11
JET_JER_EffectiveNP_12realTerm	JET_JER_EffectiveNP_12realTerm
JET_JER_EffectiveNP_1	JET_JER_EffectiveNP_1
JET_JER_EffectiveNP_2	JET_JER_EffectiveNP_2
JET_JER_EffectiveNP_3	JET_JER_EffectiveNP_3
JET_JER_EffectiveNP_4	JET_JER_EffectiveNP_4
JET_JER_EffectiveNP_5	JET_JER_EffectiveNP_5
JET_JER_EffectiveNP_6	JET_JER_EffectiveNP_6
JET_JER_EffectiveNP_7	JET_JER_EffectiveNP_7
JET_JER_EffectiveNP_8	JET_JER_EffectiveNP_8
JET_JER_EffectiveNP_9	JET_JER_EffectiveNP_9
JET_Pileup_OffsetMx	JET_Pileup_OffsetMx
JET_Pileup_OffsetNPV	JET_Pileup_OffsetNPV
JET_Pileup_PTerm	JET_Pileup_PTerm
JET_Pileup_RhoTopology	JET_Pileup_RhoTopology
JET_PunchThrough_MC16	JET_PunchThrough_MC16
MET_SoftTrk_Scale	MET_SoftTrk_Scale
MUON_ID	MUON_ID
MUON_MS	MUON_MS
MUON_SAGITTA_RESBIAS	MUON_SAGITTA_RESBIAS
MUON_SCALE	MUON_SCALE
Pileup_RW	Pileup_RW
Electron_SF_Trigger	Electron_SF_Trigger
Muon_SF_Trigger_STAT	Muon_SF_Trigger_STAT
Muon_SF_Trigger_SYST	Muon_SF_Trigger_SYST
Muon_SF_ID_STAT	Muon_SF_ID_STAT
Muon_SF_ID_PT_DEPENDENCY	Muon_SF_ID_PT_DEPENDENCY
Muon_SF_ID_QCD_TEMPLATE	Muon_SF_ID_QCD_TEMPLATE
Muon_SF_Isol_TRUTH	Muon_SF_Isol_TRUTH
Muon_SF_Isol_STAT	Muon_SF_Isol_STAT
Muon_SF_Isol_BKG_FRACTION	Muon_SF_Isol_BKG_FRACTION
Muon_SF_Isol_QCD_TEMPLATE	Muon_SF_Isol_QCD_TEMPLATE
Muon_SF_Isol_MLLWINDOW	Muon_SF_Isol_MLLWINDOW
Muon_SF_Isol_DRMUJ	Muon_SF_Isol_DRMUJ
Muon_SF_Isol_PROMED	Muon_SF_Isol_PROMED
Muon_SF_Isol_SHERPA_POWHEG	Muon_SF_Isol_SHERPA_POWHEG
Muon_SF_TTVA_STAT	Muon_SF_TTVA_STAT
Muon_SF_TTVA_BKG_FRACTION	Muon_SF_TTVA_BKG_FRACTION
Muon_SF_TTVA_MC_XSBC	Muon_SF_TTVA_MC_XSBC
Muon_SF_TTVA_QCD_TEMPLATE	Muon_SF_TTVA_QCD_TEMPLATE
Photon_ID	Photon_ID
Photon_efflao	Photon_efflao
JVT scale factor	JVT scale factor
stakeSF_	stakeSF_
hakeSF_	hakeSF_
leptakeSF_	leptakeSF_
leptakeSF_var1	leptakeSF_var1
leptakeSF_var2	leptakeSF_var2
ty_dec_var3c	ty_dec_var3c
ty_dec_bar	ty_dec_bar
tbody_var3c	tbody_var3c
ty_dec_Herwig7	ty_dec_Herwig7
tbody_Herwig7	tbody_Herwig7
Wty_Herwig7	Wty_Herwig7
Wty_Herwig7	Wty_Herwig7
tbody_hdamp_var	tbody_hdamp_var
tbody_pt_hard	tbody_pt_hard
Wty_Norm	Wty_Norm
Wty_Norm	Wty_Norm
ty(n channel) Norm	ty(n channel) Norm
ty(l channel) Norm	ty(l channel) Norm
Wty_Norm	Wty_Norm
Zty_Norm	Zty_Norm
tbody_Norm	tbody_Norm
Luminosity	Luminosity
jet jet data vs mc APB	jet jet data vs mc APB
jet RelativeNonClosure APB	jet RelativeNonClosure APB
highpt_uncalib_jet	highpt_uncalib_jet
highpt_uncalib_cjet	highpt_uncalib_cjet
highpt_uncalib_bjet	highpt_uncalib_bjet
Wty_muR	Wty_muR
Wty_muR	Wty_muR
Wty_muR	Wty_muR
tbody_muR	tbody_muR
ty_dec_muR	ty_dec_muR
ty_dec_muR	ty_dec_muR
ty_dec_PDF4LHC_1	ty_dec_PDF4LHC_1
ty_dec_PDF4LHC_2	ty_dec_PDF4LHC_2
ty_dec_PDF4LHC_4	ty_dec_PDF4LHC_4
ty_dec_PDF4LHC_5	ty_dec_PDF4LHC_5
ty_dec_PDF4LHC_6	ty_dec_PDF4LHC_6
ty_dec_PDF4LHC_8	ty_dec_PDF4LHC_8
ty_dec_PDF4LHC_11	ty_dec_PDF4LHC_11
ty_dec_PDF4LHC_12	ty_dec_PDF4LHC_12
ty_dec_PDF4LHC_17	ty_dec_PDF4LHC_17
ty_dec_PDF4LHC_19	ty_dec_PDF4LHC_19
ty_dec_PDF4LHC_20	ty_dec_PDF4LHC_20
ty_dec_PDF4LHC_22	ty_dec_PDF4LHC_22
ty_dec_PDF4LHC_26	ty_dec_PDF4LHC_26
ty_dec_PDF4LHC_28	ty_dec_PDF4LHC_28
MET_SoftTrk_ResoPara	MET_SoftTrk_ResoPara
MET_SoftTrk_ResoPara	MET_SoftTrk_ResoPara
BTag_B_0	BTag_B_0
BTag_B_1	BTag_B_1
BTag_B_2	BTag_B_2
BTag_B_3	BTag_B_3
BTag_B_4	BTag_B_4
BTag_B_5	BTag_B_5
BTag_B_6	BTag_B_6
BTag_B_7	BTag_B_7
BTag_B_8	BTag_B_8
BTag_B_9	BTag_B_9
BTag_B_10	BTag_B_10
BTag_B_11	BTag_B_11
BTag_B_12	BTag_B_12
BTag_B_13	BTag_B_13
BTag_B_14	BTag_B_14
BTag_B_15	BTag_B_15
BTag_B_16	BTag_B_16
BTag_B_17	BTag_B_17
BTag_B_18	BTag_B_18
BTag_B_19	BTag_B_19
BTag_B_20	BTag_B_20
BTag_B_21	BTag_B_21
BTag_B_22	BTag_B_22
BTag_B_23	BTag_B_23
BTag_B_24	BTag_B_24
BTag_B_25	BTag_B_25
BTag_B_26	BTag_B_26
BTag_B_27	BTag_B_27
BTag_B_28	BTag_B_28
BTag_B_29	BTag_B_29
BTag_B_30	BTag_B_30
BTag_B_31	BTag_B_31
BTag_B_32	BTag_B_32
BTag_B_33	BTag_B_33
BTag_B_34	BTag_B_34
BTag_B_35	BTag_B_35
BTag_B_36	BTag_B_36
BTag_B_37	BTag_B_37
BTag_B_38	BTag_B_38
BTag_B_39	BTag_B_39
BTag_B_40	BTag_B_40
BTag_B_41	BTag_B_41
BTag_B_42	BTag_B_42
BTag_B_43	BTag_B_43
BTag_B_44	BTag_B_44
BTag_C_0	BTag_C_0
BTag_C_1	BTag_C_1
BTag_C_2	BTag_C_2
BTag_C_3	BTag_C_3
BTag_C_4	BTag_C_4
BTag_C_5	BTag_C_5
BTag_C_6	BTag_C_6
BTag_C_7	BTag_C_7
BTag_C_8	BTag_C_8
BTag_C_9	BTag_C_9
BTag_C_10	BTag_C_10
BTag_C_11	BTag_C_11
BTag_C_12	BTag_C_12
BTag_C_13	BTag_C_13
BTag_C_14	BTag_C_14
BTag_C_15	BTag_C_15
BTag_C_16	BTag_C_16
BTag_C_17	BTag_C_17
BTag_C_18	BTag_C_18
BTag_C_19	BTag_C_19
BTag_Light_0	BTag_Light_0
BTag_Light_1	BTag_Light_1
BTag_Light_2	BTag_Light_2
BTag_Light_3	BTag_Light_3
BTag_Light_4	BTag_Light_4
BTag_Light_5	BTag_Light_5
BTag_Light_6	BTag_Light_6
BTag_Light_7	BTag_Light_7
BTag_Light_8	BTag_Light_8
BTag_Light_9	BTag_Light_9
BTag_Light_10	BTag_Light_10
BTag_Light_11	BTag_Light_11
BTag_Light_12	BTag_Light_12
BTag_Light_13	BTag_Light_13
BTag_Light_14	BTag_Light_14
BTag_Light_15	BTag_Light_15
BTag_Light_16	BTag_Light_16
BTag_Light_17	BTag_Light_17
BTag_Light_18	BTag_Light_18
BTag_Light_19	BTag_Light_19
Electron_Reco_SF_0	Electron_Reco_SF_0
Electron_Reco_SF_1	Electron_Reco_SF_1
Electron_Reco_SF_2	Electron_Reco_SF_2
Electron_Reco_SF_3	Electron_Reco_SF_3
Electron_Reco_SF_4	Electron_Reco_SF_4
Electron_Reco_SF_5	Electron_Reco_SF_5
Electron_Reco_SF_6	Electron_Reco_SF_6
Electron_Reco_SF_7	Electron_Reco_SF_7
Electron_Reco_SF_14	Electron_Reco_SF_14
Electron_Reco_SF_15	Electron_Reco_SF_15
Electron_Reco_SF_19	Electron_Reco_SF_19
Electron_Reco_SF_20	Electron_Reco_SF_20
Electron_Reco_SF_21	Electron_Reco_SF_21
Electron_ID_SF_0	Electron_ID_SF_0
Electron_ID_SF_1	Electron_ID_SF_1
Electron_ID_SF_2	Electron_ID_SF_2
Electron_ID_SF_3	Electron_ID_SF_3
Electron_ID_SF_4	Electron_ID_SF_4
Electron_ID_SF_5	Electron_ID_SF_5
Electron_ID_SF_6	Electron_ID_SF_6
Electron_ID_SF_7	Electron_ID_SF_7
Electron_ID_SF_9	Electron_ID_SF_9
Electron_ID_SF_10	Electron_ID_SF_10
Electron_ID_SF_11	Electron_ID_SF_11
Electron_ID_SF_12	Electron_ID_SF_12
Electron_ID_SF_13	Electron_ID_SF_13
Electron_ID_SF_14	Electron_ID_SF_14
Electron_ID_SF_15	Electron_ID_SF_15
Electron_ID_SF_21	Electron_ID_SF_21
Electron_ID_SF_22	Electron_ID_SF_22
Electron_ID_SF_23	Electron_ID_SF_23
Electron_ID_SF_26	Electron_ID_SF_26
Electron_ID_SF_27	Electron_ID_SF_27
Electron_ID_SF_28	Electron_ID_SF_28
Electron_ID_SF_29	Electron_ID_SF_29
Electron_Isr_SF_0	Electron_Isr_SF_0
Electron_Isr_SF_7	Electron_Isr_SF_7
Electron_Isr_SF_8	Electron_Isr_SF_8
Electron_Isr_SF_12	Electron_Isr_SF_12
Electron_Isr_SF_13	Electron_Isr_SF_13
Electron_Isr_SF_14	Electron_Isr_SF_14
ty_prod_var3c	ty_prod_var3c
ty_prod_Herwig7	ty_prod_Herwig7
ty_prod_muR	ty_prod_muR
ty_prod_muR	ty_prod_muR
ty_prod_PDF4LHC_1	ty_prod_PDF4LHC_1
ty_prod_PDF4LHC_2	ty_prod_PDF4LHC_2
ty_prod_PDF4LHC_3	ty_prod_PDF4LHC_3
ty_prod_PDF4LHC_4	ty_prod_PDF4LHC_4
ty_prod_PDF4LHC_5	ty_prod_PDF4LHC_5
ty_prod_PDF4LHC_6	ty_prod_PDF4LHC_6
ty_prod_PDF4LHC_7	ty_prod_PDF4LHC_7
ty_prod_PDF4LHC_8	ty_prod_PDF4LHC_8
ty_prod_PDF4LHC_9	ty_prod_PDF4LHC_9
ty_prod_PDF4LHC_10	ty_prod_PDF4LHC_10
ty_prod_PDF4LHC_11	ty_prod_PDF4LHC_11
ty_prod_PDF4LHC_12	ty_prod_PDF4LHC_12
ty_prod_PDF4LHC_13	ty_prod_PDF4LHC_13
ty_prod_PDF4LHC_14	ty_prod_PDF4LHC_14
ty_prod_PDF4LHC_15	ty_prod_PDF4LHC_15
ty_prod_PDF4LHC_16	ty_prod_PDF4LHC_16
ty_prod_PDF4LHC_17	ty_prod_PDF4LHC_17
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ty_prod_PDF4LHC_24	ty_prod_PDF4LHC_24
ty_prod_PDF4LHC_25	ty_prod_PDF4LHC_25
ty_prod_PDF4LHC_26	ty_prod_PDF4LHC_26
ty_prod_PDF4LHC_27	ty_prod_PDF4LHC_27
ty_prod_PDF4LHC_28	ty_prod_PDF4LHC_28
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ty_prod_PDF4LHC_30	ty_prod_PDF4LHC_30