

$\mu_{\text{wjet\_Phi90deg}}$	100	-7.6	-3.5	8.9	16.1	-10.1	14.9	-2.5	15	12.3	-4.0	5.3	30.2	-4.2	-6.5	-8.5	10	10	12.7	10	3.2	-1.7	-1.9	-0.3	0.2	5.0	3.7	-0.7	-2.2	7.1	-61	185	-245	104	-59	43	1.6	3.7	5.9	16	-1.1	2.9	-9.8	16	-3.9	1.9	5.2	4.9	7.1	54.2	37	48	-42.9	15	126	10	
ABCD electron	-7.6	100	-10.3	-0.6	-0.3	0.9	1.8	0.8	-0.5	-1.6	-1.8	-0.6	-2.7	2.1	2.0	1.5	0.7	0.8	2.4	1.7	-0.0	0.3	1.5	-0.6	1.0	-0.2	2.2	-2.1	1.0	-0.2	0.9	-1.7	6.0	3.4	1.5	1.2	-0.5	-0.7	-0.0	0.4	0.3	-0.4	-0.6	0.5	0.1	-0.1	-0.5	0.8	-0.4	-0.3	0.1	-4.9	3.9	-3.6	-1.5		
ABCD muon	-10.3	-0.6	100	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
JER_1	8.9	-0.6	-0.1	100	-0.1	0.4	0.1	0.1	-0.9	-0.0	-0.5	-0.0	-0.0	-1.4	0.9	0.0	0.3	-0.8	-1.3	-0.5	-0.0	-0.5	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
JER_2	16.1	-0.3	-0.1	-0.1	100	-0.1	0.3	0.0	-0.3	-0.0	-0.2	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
JER_3	-10.1	0.9	0.4	0.4	0.3	100	-0.1	-0.1	1.3	0.1	0.9	0.0	0.1	1.0	1.4	0.0	0.5	1.2	1.1	0.6	-0.0	0.6	0.2	0.0	0.0	0.0	0.6	0.1	0.4	-0.0	0.3	0.4	-0.9	-0.6	-0.1	-1.2	0.9	0.0	0.0	-0.2	-0.2	-0.2	0.0	-0.9	0.4	0.2	0.1	0.3	-0.0	-0.1	1.0	1.0	-1.2	-0.2			
JER_4	14.9	-0.8	0.8	0.1	0.3	-0.0	-0.1	-0.1	-0.3	-0.2	-0.0	-0.1	-0.1	-1.3	-0.1	-0.2	-0.3	-0.3	1.3	-0.8	-0.0	-0.8	-0.3	0.1	0.1	0.1	0.1	0.8	0.1	0.8	0.4	-0.0	-0.2	-0.5	-0.4	-0.6	-0.0	-0.0	-0.2	-0.3	-0.3	1.4	0.2	0.1	0.1	-0.5	-0.0	-0.1	0.1	1.4	1.7	2.0	0.7				
JER_5	2.5	-0.8	0.4	0.1	0.0	-0.1	-0.1	-0.0	0.1	-0.0	0.1	0.0	0.0	0.1	0.2	-0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	-0.1	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
JES_Modelling1	1.5	-5.5	-0.2	-5.9	-0.6	1.3	0.4	0.1	-0.0	0.2	1.8	-0.0	-0.2	-7.8	1.2	0.2	1.6	-3.3	-7.8	-2.8	-0.0	-3.6	-0.1	0.2	0.1	-0.0	3.0	-0.0	2.4	0.1	1.9	-0.3	1.9	1.3	-0.1	4.3	-3.2	-0.0	0.0	0.4	-0.3	-0.6	3.0	0.1	-0.1	-0.2	1.6	0.0	2.2	-1.6	-0.1	-2.4	1.3	6.8	1.2		
JET_BJES_Response	12.3	-1.6	-0.8	-0.0	-0.0	0.1	0.2	0.0	0.2	0.0	0.0	-0.0	-0.0	0.3	-0.1	0.2	0.1	0.2	0.3	0.3	0.0	0.2	0.2	-0.0	0.1	-0.1	0.0	-0.2	0.2	0.0	-0.1	0.3	0.2	0.1	-0.1	0.1	0.0	0.0	0.0	0.0	-0.0	-0.1	0.0	0.0	-0.1	0.0	0.4	0.1	-0.0	-0.1	-0.2	-0.6	-0.2				
JET_EtaIncl_Response	3.4	-1.8	-0.8	-0.5	0.0	0.9	0.4	0.1	1.5	-0.0	-0.0	-0.1	-0.1	-4.3	1.3	0.4	-0.5	-1.2	-4.0	-1.0	-0.0	-1.2	0.5	-0.2	0.1	-0.1	1.5	-0.3	0.8	0.0	0.6	0.4	0.0	0.0	1.8	-1.3	-0.1	0.0	-0.2	-0.2	-0.3	-0.3	1.4	0.2	0.1	0.1	-0.6	0.0	-0.6	-0.4	-0.1	-1.4	0.4	2.3	0.0		
JET_EtaIncl_NonClosure_2018data	4.0	-0.6	-0.3	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
JET_EtaIncl_TotStat	5.3	-0.7	-0.3	-0.0	-0.0	0.1	0.1	0.0	0.2	-0.0	0.1	-0.0	-0.0	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.0	0.2	0.1	-0.0	0.0	-0.0	0.1	-0.1	0.2	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
JET_Flavor_Composition	0.5	0.2	0.1	-0.1	-0.1	0.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	-0.5	-0.5	-7.7	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2
JET_Flavor_Response	-0.2	2.0	1.0	0.9	-0.0	-1.4	-0.1	-0.2	-3.2	-0.1	1.3	0.1	-0.2	7.8	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2
JET_JER_DataVsiMC_MC16	0.5	-0.15	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
JET_Pileup_OffsetMu	3.5	0.7	0.3	-0.3	-0.1	0.5	-0.3	0.0	-1.6	0.1	-0.5	0.0	0.1	-3.7	1.2	0.0	-0.0	-1.5	-3.6	-1.4	-0.5	-1.4	-0.1	0.1	0.0	0.0	1.2	0.1	-1.2	0.1	-1.0	0.1	0.8	0.5	-0.1	1.9	-1.4	0.0	0.0	-0.2	-0.2	-0.3	-0.3	1.4	0.1	-0.0	0.1	-0.9	0.0	1.3	-0.6	-0.1	0.0	1.1	3.6	0.8	
JET_Pileup_OffsetPbP	1.0	0.8	0.4	-0.8	-0.1	1.2	-0.5	0.1	-3.5	0.2	-1.2	0.0	-0.2	-7.7	-2.7	0.1	-1.5	-0.6	-7.4	-2.7	-0.0	-2.7	-0.1	0.2	0.0	0.0	2.6	0.1	2.2	0.1	-1.7	-0.3	1.3	0.5	-0.2	3.8	-2.9	0.0	0.0	-0.4	-0.3	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6
JET_Pileup_RhoTopology	32.7	2.4	1.1	-1.3	0.3	1.1	-1.3	0.1	-7.6	0.3	-4.0	0.1	0.2	-13.0	7.3	-0.4	-3.6	7.4	-0.4	-6.1	-0.0	-6.1	-1.1	0.1	0.1	0.1	6.1	0.2	0.0	-0.3	-3.9	-0.8	0.2	0.8	-8.6	0.1	0.0	-0.2	-0.1	-0.2	-0.9	6.8	-0.6	-0.5	0.2	3.5	0.0	1.5	-4.6	-0.1	-7.0	-0.3	14.2	2.7			
LumiUncertainty	1.0	1.7	0.8	-0.5	0.2	0.6	0.0	-0.2	0.9	0.3	1.0	0.0	0.2	-6.2	2.4	-0.1	-1.4	-2.7	6.1	-0.0	-2.5	-0.3	0.1	0.1	0.1	2.2	0.2	2.1	0.1	-1.7	-0.0	1.2	0.8	-0.3	3.4	-2.6	0.1	0.0	-0.3	0.0	-0.5	-2.6	0.1	-0.1	0.2	1.5	-0.0	-1.7	-1.3	-0.1	-1.3	1.3	6.1	1.2			
MEDIUM_IsuID_IPQ640	3.2	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
MEDIUM_IsuID_SYST	-1.7	0.3	0.1	-0.5	0.1	0.6	0.0	-0.0	-0.0	0.2	-1.2	0.0	0.2	-6.2	2.6	-0.0	-1.4	-2.7	6.1	-2.5	-0.0	-0.2	0.1	0.0	0.0	2.4	0.0	2.2	0.1	-1.7	-0.1	1.7	1.3	-0.2	3.8	-2.7	0.0	0.0	-0.4	-0.3	-0.4	-0.6	-2.7	0.1	-0.1	0.2	1.5	-0.0	-1.7	-1.3	-0.1	-1.3	1.3	6.2	1.2		
MET_SoftTrk_ResoPara	-1.5	1.5	0.1	-0.0	-0.0	0.2	0.0	-0.0	-0.0	0.2	0.0	0.0	0.0	-1.4	-0.3	-0.0	-0.1	-0.1	-1.1	-0.3	-0.2	-0.2	0.2	0.1	0.1	0.1	0.1	0.3	0.1	-0.2	0.3	-0.5	-0.1	-0.2	0.1	-0.1	0.0	-0.1	-0.1	-0.2	-0.2	-0.1	0.2	0.1	0.1	0.2	0.0	1.6	0.4	0.1	1.5	1.6	1.0	0.4			
MET_SoftTrk_ResoPbP	-0.3	-0.5	-0.3	-0.0	0.0	0.0	0.3	0.0	0.2	-0.0	0.2	-0.0	-0.0	0.3	0.1	0.1	0.1	0.2	0.1	0.1	0.0	0.1	0.2	0.0	0.0	0.0	0.0	-0.0	-0.1	0.1	-0.1	-0.2	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
MET_SoftTrk_Scale	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
Mu_Iso_STAT	5.0	-0.9	-0.4	-0.0	-0.0	0.1	0.0	-0.0	-0.1	-0.1	-0.1	-0.0	-0.1	-0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	-0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
PRW	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													

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