

	μ	1000	3.3	12	7.0	115	273	-4.1	-0.3	7.0	-29	14	38	24	0.3	-1.1	0.9	39	-108	0.7	26	0.7	66	-40	1.1	74	-83	-21	-48	-104	14	29	29	29	29	29	-14	29	-0.8	7	0.2	-36	-41	19	-138	0.9	-0.0	0.2	
	ABCD electron	3.3	1000	-65.5	-13	-25	-0.0	3.2	-6.5	49.0	0.0	2.8	138	-1.1	-1.6	4.3	0.5	-0.2	-7.9	-174	143	106	-0.0	3.5	3.1	-29	-60	-1.7	0.2	-0.8	-0.7	-0.7	-0.7	-0.7	-0.7	-1.1	-0.7	0	129	34	-79	73	-53	-24	-202	0.7	-0.7		
	ABCD muon	12	-65.5	1000	-0.5	-0.9	-0.0	1.1	-3.6	1.8	-0.0	1.0	51	-0.3	-0.6	1.5	0.4	-0.1	-2.6	-64	54	39	1.0	-0.0	1.2	1.1	-1.1	-22	-0.6	0.1	-0.3	-0.3	-0.3	-0.3	-0.3	-0.4	-0.3	0.2	4.7	1.2	29	27	-19	-0.6	-73	0.3	-0.2		
	FFNP_SS_CR	7.0	-1.3	-0.5	1000	-26.9	-0.0	2.3	0.5	-0.7	0.4	-1.7	13	-1.2	1.0	0.7	34	7.9	4.7	-1.8	-29	-0.2	0.9	-0.7	0.5	24	-26	-21	-0.0	0.4	5.9	6.1	6.1	6.1	6.1	6.1	7.7	6.1	103	-6.5	-20	-0.1	64	-105	-0.6	-0.9	3.7	-34	
	FFNP_OS_CR	115	-115	-36	-26.9	1000	-0.0	1.0	-1.3	0.2	-2.7	16	1.5	2.8	2.0	0.0	0.0	0.0	0.0	133	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	-11.5	-23	-0.1	65	0.0	-1.6	65	
	HBIR	273	-0.0	-0.0	-0.0	-0.0	1000	0.0	0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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_1	-4.1	3.2	1.1	2.3	4.5	0.0	1000	-9.3	13.0	-0.1	6.0	1.0	-0.7	0.2	0.2	4.5	-12	5.2	4.2	0.4	1.6	1.1	0.3	3.1	-21	2.2	6.9	-3.0	-0.3	0.1	-0.1	-0.1	-0.1	-0.2	-0.1	-0.4	-0.2	1.6	-1.5	3.6	2.5	-3.1	-1.8	-1.8	2.9	-1.2	-3.9	
	JER_2	-0.4	9.5	-3.6	0.5	-1.0	-0.0	9.3	1000	8.3	-2.6	0.1	0.3	4.3	0.2	0.3	-15.4	1.2	5.7	0.7	4.9	3.0	3.3	-1.8	2.8	0.0	-0.2	2.2	-1.3	0.3	-1.3	-1.1	-1.1	-1.1	-1.1	-1.1	-1.2	-1.1	4.2	2.9	4.1	1.9	0.3	-2.5	-3.9	-0.4	1.7	-3.5	
	JER_4	7.0	4.9	1.8	-0.7	-1.9	-0.0	13.0	8.3	1000	0.2	2.8	2.8	0.5	0.1	-0.3	4.9	1.9	-1.0	-2.4	2.8	-3.6	-1.2	-0.4	-3.1	0.5	-0.4	-3.0	2.1	0.0	-1.9	-1.2	-1.2	-1.2	-1.2	-1.2	-3.2	-1.2	-1.7	2.9	-3.7	-0.1	0.8	3.0	2.2	0.6	4.2	0.0	
	JES_Modelling1	-2.9	0.0	-0.0	0.4	0.2	0.0	0.1	-0.5	0.3	1000	13.1	-1.7	19.1	-3.8	9.6	-2.7	1.6	-4.1	-0.4	0.3	0.0	0.0	2.1	2.3	0.2	0.4	0.0	-1.9	2.0	0.1	-1.6	-1.6	-1.4	-1.4	-1.4	-1.4	-1.4	-2.6	-1.4	-1.4	-1.6	0.4	-10.8	-3.3	3.3	1.5	1.2	
	JET_EtaInt_Modelling	1.4	2.8	1.0	-1.7	-2.7	-0.0	6.0	0.1	-2.8	-13.1	1000	24	20.9	-3.3	-9.8	2.1	1.3	-6.1	-1.2	3.7	0.4	0.8	-1.4	-3.9	0.4	-1.0	-6.0	3.6	0.0	-1.0	-0.8	-0.8	-0.8	-0.8	-0.8	-1.4	-0.8	3.0	-2.9	-6.5	0.4	-11.3	-0.0	3.3	2.7	1.5	-1.1	
	JET_Flavor_Composition	-3.8	13.8	5.1	13	1.6	0.0	1.0	0.3	2.8	-4.4	24	1000	0.1	5.7	-1.6	-28.0	-7.3	-2.3	9.8	-12.4	-4.2	1.1	-1.0	-24	84	-10.7	0.2	2.3	-0.6	0.4	-0.1	-0.1	-0.1	-0.1	-0.1	0.9	-0.1	1.3	-16.1	-9.7	-17.1	-14	-26.2	18.0	3.1	-3.1	-0.0	
	JET_Flavor_Response	2.4	-1.1	-0.3	-1.2	1.9	-0.0	0.7	4.3	0.5	19.2	20.8	0.1	1000	3.9	132	22	1.5	5.4	-1.1	-1.2	0.1	-2.4	2.9	1.5	-1.4	2.0	5.1	-5.6	0.4	5.0	4.3	4.3	4.3	4.3	4.3	7.4	4.3	4.0	1.5	4.9	0.1	20.4	2.6	-5.6	-3.7	3.5	3.1	
	JET_Pileup_OffsetMu	0.3	-1.6	-0.6	1.0	2.8	-0.0	0.2	0.2	0.1	-3.8	-3.3	5.7	3.9	1000	-6.1	74	29	-1.8	5.8	1.7	1.5	-0.4	-0.2	0.0	-0.2	-1.2	-1.7	-0.2	0.8	0.7	0.7	0.7	0.7	0.7	0.6	0.7	33	-10.0	0.6	-0.8	-2.3	-1.9	-6.6	0.4	-0.8	2.2		
	JET_Pileup_OffsetNPV	-1.1	-4.3	1.5	0.7	2.0	0.0	0.2	0.2	-0.3	-0.6	-0.8	16	13.2	-5.1	1000	-4.7	34	-5.7	-2.9	0.7	1.1	2.0	-1.6	-2.4	-1.1	1.1	-0.8	-0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.6	0.0	12	6.9	-3.2	0.2	-18.6	-3.6	-1.1	3.7	0.4	0.7
	JET_Pileup_RhoTopology	0.9	0.5	0.4	3.4	4.6	-0.0	4.5	-15.4	4.9	-5.7	21	-29.0	2.2	-7.4	-3.7	1000	5.4	7.5	17.1	34.5	152	128	-7.7	4.4	3.6	-4.5	4.6	0.3	0.2	-1.5	-0.7	-0.7	-0.7	-0.7	-3.2	-0.7	4.7	-30.0	0.5	9.9	3.7	-2.8	10.0	-7.6	2.9	1.9	0.7	
	PRW	3.9	-0.2	-0.1	7.9	8.9	-0.0	-1.2	1.2	1.9	1.8	1.3	-7.3	1.5	2.9	3.4	54	1000	1.9	128	1.3	0.6	-14.4	11.6	-1.1	0.9	-1.3	-1.3	-0.8	-0.3	-4.5	-4.0	-4.0	-4.0	-4.0	-8.7	-4.0	5.1	2.8	-1.1	-8.3	-16.2	4.6	-0.1	-1.8	2.5	-4.1		
	TES_DETECTOR	-10.8	-7.9	-2.8	4.7	13.0	0.0	5.2	5.7	-1.0	-4.7	-6.1	-2.3	5.4	-7.0	-5.7	7.5	1.9	1000	-8.6	9.3	3.2	0.2	0.4	-3.6	-0.8	0.6	-10.1	-0.7	-1.2	5.1	4.6	4.6	4.6	4.6	4.6	5.4	4.6	-4.1	3.9	-5.8	-7.0	2.4	2.2	-7.5	-4.4	-4.3	2.1	
	TAU_PLIV	0.7	-17.4	6.4	-1.8	-3.3	0.0	4.2	0.7	-2.4	-0.4	1.2	38	-1.1	-1.8	2.9	17.1	128	-8.6	1000	9.1	-4.2	11.0	-6.4	-2.6	-4.2	5.3	-1.6	-7.4	0.0	-1.1	-0.9	-0.9	-0.9	-0.9	-1.5	0.9	3.3	-11.2	-4.6	-6.1	-5.8	0.0	-1.0	-5.0	1.7	0.8		
	btag_B_0	-2.6	-14.3	5.4	-2.9	-3.9	0.0	0.4	4.9	-2.8	-0.3	3.7	12.4	-1.2	5.8	0.7	34.5	-1.3	9.3	-8.1	1000	-12.5	-3.3	0.5	1.8	0.3	0.2	4.6	-1.2	-0.1	-1.4	-1.0	-1.0	-1.0	-1.0	-2.0	-1.0	3.0	18.7	3.3	-0.3	-23.1	3.9	2.8	4.2	2.3	-3.2		
	btag_B_1	0.7	10.6	3.9	-0.2	-0.4	-0.0	1.6	3.0	-3.6	-0.2	0.4	-4.2	0.1	1.7	-1.1	15.2	0.8	3.2	-4.2	-12.5	1000	-1.4	0.0	-0.7	0.7	1.0	1.9	-0.2	0.0	-0.8	-0.5	-0.5	-0.5	-0.5	-1.4	-0.5	0.8	5.5	1.2	0.3	5.7	4.2	0.2	3.9	1.3	-0.4		
	btag_B_3	6.6	2.8	1.0	0.9	0.8	-0.0	1.1	3.3	-1.2	2.1	0.8	1.1	-2.4	1.5	2.0	12.8	-14.4	0.2	11.0	3.3	-1.4	1000	11.0	1.7	1.6	-1.8	-1.2	2.9	-0.1	-1.5	-1.0	-1.0	-1.0	-1.0	-1.0	-2.6	-1.0	2.3	-3.9	4.3	-5.7	5.0	-11.1	-0.5	-0.2	1.1	-0.4	
	btag_B_37	-4.0	-0.0	-0.0	-0.5	0.0	0.0	-0.3	-1.8	-0.4	-2.2	-1.4	1.0	-2.9	-0.4	-1.6	-7.7	11.6	0.4	8.4	-0.5	0.0	11.0	1000	1.0	-1.3	1.5	1.0	0.8	0.1	1.2	0.9	0.9	0.9	0.9	0.9	0.9	1.5	5.6	-3.4	5.3	4.4	1.0	38	0.3	0.7	0.3		
	btag_C_0	1.1	3.5	1.9	-0.7	-0.6	0.0	0.1	2.2	-3.1	0.2	0.9	2.1	1.5	0.2	2.4	-1.2	-3.6	2.8	1.9	0.7	1.7	-1.0	1000	0.0	-0.7	-3.6	1.4	0.0	0.0	0.5	0.5	0.5	0.5	0.5	1.3	0.5	0.9	-4.7	-7.8	-0.8	0.3	2.3	-3.4	3.4	0.4	0.1		
	btag_C_5	7.4	3.1	1.1	2.4	3.0	-0.0	2.1	0.0	0.5	0.4	0.4	9.4	-1.4	0.0	-1.1	3.6	0.9	-0.8	-4.2	0.3	-0.7	1.6	-1.3	0.6	1000	1.5	-0.1	2.0	0.2	-0.5	-0.4	-0.4	-0.4	-0.4	-0.4	-1.3	-0.4	2.5	-8.8	0.7	1.2	2.0	-10.3	2.4	0.1	-0.2	0.4	
	btag_C_8	-8.3	-2.9	-1.1	-2.6	-3.2	0.0	2.2	-0.2	-0.4	-0.8	-1.0	-10.7	2.0	-0.2	1.1	-4.5	-1.3	0.6	5.3	0.2	1.0	-1.8	1.5	-0.7	15	1000	-0.2	-2.1	-0.3	0.7	0.5	0.5	0.5	0.5	0.5	1.6	0.5	2.8	8.9	-0.5	-1.5	-1.3	11.1	-3.2	0.0	0.1	-0.4	
	fakeSF_1p_p0_b_fake	-2.1	-6.0	-2.2	-2.1	-3.1	0.0	6.9	2.2	-3.0	-1.9	6.0	0.2	5.1	-1.2	-0.8	4.6	-1.3	-10.1	-1.6	4.5	1.9	-1.2	1.0	-3.6	-0.1	-0.2	1000	0.2	0.0	0.3	0.2	0.2	0.2	0.2	0.2	0.2	1.0	0.2	2.8	7.0	-5.8	-3.8	0.4	4.6	-3.4	-2.6	0.1	-0.8
	fakeSF_1p_p2_b_fake	-4.5	-1.7	-0.6	-0.0	-0.4	0.0	3.0	-1.3	2.1	2.0	3.6	2.3	-5.6	-1.7	-0.6	0.3	-0.8	-0.7	-7.4	-1.2	-0.2	2.9	-0.8	-1.4	2.0	-2.1	0.2	1000	0.1	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.6	0.4	-8.8	0.2	-1.7	-8.8	5.3	-11.6	0.5	-0.0	-0.4	
	ttH theory_uncer	-10.4	0.2	0.1	0.4	0.9	0.0	-0.3	0.3	-0.0	-0.1	0.0	-0.6	0.4	-0.2	0.1	-0.2	-0.3	-1.2	0.4	-0.1	0.0	-0.1	0.1	0.0	0.2	-0.3	-0.0	-0.1	1000	0.0	0.1	0.1	0.1	0.1	0.1	0.3	-0.2	0.1	-0.3	1.0	0.0	-0.1	-0.3	0.9	-0.6	0.2	-0.3	0.1
	tauTrigger_STATDATA161718	1.4	-0.8	-0.3	5.9	5.6	-0.0	6.1	-1.3	-1.9	-1.6	-1.0	0.4	5.0	0.8	0.0	-1.5	-4.5	5.1	-1.1	-1.4	-0.8	-1.5	1.2	0.7	0.5	0.7	0.3	-0.6	0.0	1000	-5.7	-5.7	-5.7	-5.7	-5.7	-13.1	-5.7	-4.2	-0.4	1.0	-1.8	-0.4	4.7	-1.3	-0.2	7.3	4.6	
	tauTrigger_STATDATA2018	2.9	-0.7	-0.3	6.1	6.2	-0.0	0.1	-1.1	-1.2	-1.4	-0.8	-0.1	4.3	0.7	0.0	-0.7	-4.0	4.6	-0.9	-1.0	-0.5	-1.0	0.9	0.5	-0.4	0.5	-0.2	-0.6	0.1	-5.7	1000	-4.6	-4.6	-4.6	-4.6	-10.7	-4.6	-4.2	-0.5	0.7	-1.7	-0.8	4.6	-1.1	-0.2	5.7	-5.1	
	tauTrigger_STATMC161718	2.9	-0.7	-0.3	6.1	6.2	-0.0	0.1	-1.1	-1.2	-1.4	-0.8	-0.1	4.3	0.7	0.0	-0.7	-4.0	4.6	-0.9	-1.0	-0.5	-1.0	0.																									