

Table 1: Scale Factors for Cut-Based e-veto

Selection	scale factor	total	stat	+syst	- syst
Loose Bar	0.7980794	0.2099897	0.1520378	0.1448460	0.1437448
Loose Cra	0.4120075	0.6152361	0.6063015	0.0980377	0.1044702
Loose End	1.0038472	0.0474594	0.0346537	0.0314036	0.0324296
Loose (TOL) Bar	0.8423514	0.2755117	0.1995418	0.1898987	0.1899733
Loose (TOL) Cra	0.2561496	0.6451452	0.6423302	0.0558176	0.0602036
Loose (TOL) End	1.1867866	0.2243000	0.1588526	0.1564271	0.1583556
Loose (MOL) Bar	2.3863794	1.1446427	0.9427606	0.6349589	0.6491607
Loose (MOL) Cra	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Loose (MOL) End	1.9160663	0.5306350	0.3813423	0.3603109	0.3689875
Medium Bar	1.8348133	0.9079715	0.7032993	0.5740313	0.5742669
Medium Cra	0.6185511	1.5358977	1.5118840	0.2650018	0.2705343
Medium End	1.5028615	0.5646101	0.3649809	0.4307826	0.4305034
Medium (TOL) Bar	2.3161725	1.2479240	1.0101174	0.7253739	0.7327874
Medium (TOL) Cra	0.5442097	1.7550594	1.7369878	0.2465709	0.2512115
Medium (TOL) End	1.4441724	1.0540075	0.5914450	0.8724247	0.8617416
Medium (MOL) Bar	3.4920727	2.0597240	1.7464862	1.0615188	1.0919016
Medium (MOL) Cra	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Medium (MOL) End	2.2033656	1.9563789	1.1477488	1.5843268	1.5783418
Tight Bar	3.7288776	2.2765760	1.9640850	1.1239456	1.1511598
Tight Cra	0.4693456	5.1171671	5.0999930	0.4174420	0.4188928
Tight End	1.6524781	0.7353070	0.4673146	0.5663988	0.5677090
Tight (TOL) Bar	4.0159170	2.6059063	2.2612499	1.2564367	1.2951821
Tight (TOL) Cra	0.4702270	5.1250790	5.1078831	0.4180287	0.4194830
Tight (TOL) End	1.7787232	1.6873015	0.9179690	1.4157399	1.4120015
Tight (MOL) Bar	6.2430004	4.2357542	3.8007755	1.7850555	1.8696843
Tight (MOL) Cra	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Tight (MOL) End	3.0937640	2.9732469	1.7958818	2.3696004	2.3673033

Table 2: Scale Factors for BDT-Based e-veto

Selection	scale factor	total	stat	+syst	- syst
Loose Bar	1.9266777	1.5827248	0.6685277	1.4346040	1.4246900
Loose Cra	0.6155222	1.7322575	1.6661403	0.4740178	0.4694740
Loose End	1.5387121	0.4696524	0.2725879	0.3824518	0.3707266
Loose (TOL) Bar	1.8997292	1.7550139	0.7214171	1.5998848	1.5854773
Loose (TOL) Cra	0.5992961	1.7785836	1.7092407	0.4917887	0.4863790
Loose (TOL) End	1.9081670	0.9342478	0.4890936	0.7959941	0.7583430
Loose (MOL) Bar	3.8512520	3.5250138	1.7375362	3.0670329	3.0402903
Loose (MOL) Cra	0.8569908	9.0388689	8.5551124	2.9173968	2.5050258
Loose (MOL) End	2.6466194	2.3647942	1.1818962	2.0482610	1.9832607
Medium Bar	3.0426390	3.2114031	1.5604582	2.8067919	2.8003739
Medium Cra	0.5868975	6.4585160	6.2334897	1.6895435	1.6899809
Medium End	1.9427053	2.4068872	1.2800647	2.0382690	1.9200191
Medium (TOL) Bar	3.0734787	3.4032639	1.6408494	2.9815799	2.9734402
Medium (TOL) Cra	0.5868975	6.4585160	6.2334897	1.6895435	1.6899809
Medium (TOL) End	1.9116505	3.4865634	1.7617192	3.0087323	2.8290170
Medium (MOL) Bar	5.9100336	5.9845532	3.4481005	4.8913680	4.8888687
Medium (MOL) Cra	0.0000000	10.8989603	0.0000000	10.8989604	10.8989604
Medium (MOL) End	3.1838284	6.1753484	3.3330495	5.1986257	4.7810336
Tight Bar	4.0600767	3.9007851	2.3961288	3.0780987	2.9770155
Tight Cra	5.2972604	2.5890783	2.5371695	0.2495432	0.5158468
Tight End	3.7401579	6.4478908	4.9859195	4.0885087	3.9474024
Tight (TOL) Bar	4.0178581	4.0094791	2.4498063	3.1740151	3.0719765
Tight (TOL) Cra	5.2972604	2.5890783	2.5371695	0.2495432	0.5158468
Tight (TOL) End	4.1072107	6.9905864	5.5079334	4.3047611	4.1479456
Tight (MOL) Bar	6.7654793	6.2447656	4.5007376	4.3290252	4.1352755
Tight (MOL) Cra	21.9006454	14.5413123	13.0481726	6.1409293	6.4183297
Tight (MOL) End	6.6379235	13.8623574	12.2679317	6.4546732	6.1927309