combinedCard\_Higgs125GeV\_VBFStudy\_k57nj2\_k24nj3\_4l.txt

11/23/10																													combinedCa	ra_Higgs125Gev_vE	BrStudy_k5/nj2_k24	11J3_41.LXL																
Combination of nj2ch4mu=dataca imax 6 number of bins jmax 7 number of processes kmax 32 number of nuisance para	rd_Higgs125GeV_VBF	BFStudy_k57nj2_ch4m	mu.txt nj2ch4e=c	datacard_Higgs125G	GeV_VBFStudy_k57n	j2_ch4e.txt nj20	2ch2e2mu=datacard_	_Higgs125GeV_VBFSt	cudy_k57nj2_ch2e	2mu.txt nj3ch4m	mu=datacard_Higq	ggs125GeV_VBFStu	udy_k24nj3_ch4mu	u.txt nj3h4e=da	atacard_Higgs125	GeV_VBFStudy_k24	4nj3_ch4e.txt n	j3ch2e2mu=dataca	<sup>-</sup> d_Higgs125GeV_V	BFStudy_k24nj3_ch2e	2mu.txt																											
shapes * nj2ch2e2mu shapes * nj2ch4e shapes * nj2ch4mu shapes * nj3ch2e2mu shapes * nj3ch4mu shapes * nj3h4e	datacard_Higgs125 datacard_Higgs125 datacard_Higgs125 datacard_Higgs125 datacard_Higgs125 datacard_Higgs125	25GeV_VBFStudy_k57n 25GeV_VBFStudy_k57n 25GeV_VBFStudy_k57n 25GeV_VBFStudy_k24n 25GeV_VBFStudy_k24n 25GeV_VBFStudy_k24n	nj2_ch2e2mu.root nj2_ch4e.root ch4 nj2_ch4mu.root ch nj3_ch2e2mu.root nj3_ch4mu.root ch nj3_ch4e.root ch4	ch2e2mu/\$PROCESS 4e/\$PROCESS ch4e/\$ h4mu/\$PROCESS ch4m ch2e2mu/\$PROCESS h4mu/\$PROCESS ch4m 4e/\$PROCESS ch4e/\$	ch2e2mu/\$PROCESS SPROCESS_\$SYSTEMA nu/\$PROCESS_\$SYSTE ch2e2mu/\$PROCESS nu/\$PROCESS_\$SYSTEMA SPROCESS_\$SYSTEMA	_\$SYSTEMATIC TIC EMATIC _\$SYSTEMATIC EMATIC TIC	-																																									
bin nj2ch4mu n observation 4	nj2ch4e n 2 8	nj2ch2e2mu n 8 1	nj3ch4mu 1	nj3h4e 0	nj3ch2e2mu 2		-																																									
bin process process rate	nj2ch4mu qqH 0 0.8101	nj2ch4mu ZH 1 0.0845	nj2ch4mu qqZZ 2 0.4988	u nj2ch4mu WH 3 0.1316	nj2ch4mu ttH 4 0.0093	u nj2ch4r ggZZ 5 0.0448	- 4mu nj2ch4 zjets 6 8 0.9185	4mu nj2ch4 ggH 7 5 1.7439	Hmu nj2cl qqH 0 0 0.444	h4e nj2 ZH 1 88 0.6	2ch4e 1	nj2ch4e qqZZ 2 0.2928	nj2ch4e WH 3 0.0745	nj2ch4e ttH 4 0.0059	nj2ch4e ggZZ 5 0.0255	nj2ch4e zjets 6 0.2215	nj2ch4 ggH 7 0.8997	e nj2ch2 qqH 0 1.0720	Pe2mu nj2c ZH 1 0 0.11	n2e2mu nj2ch2 qqZZ 2 48 0.6109	e2mu nj2ch2 WH 3 0.1766	2e2mu nj2ch2e ttH 4 5 0.012	e2mu nj2ch2 ggZZ 5 0.0474	2e2mu nj2ch2e zjets 6 4 1.56	e2mu nj2ch2 ggH 7 2.2172	e2mu nj3ch4mu qqH 0 0.235	nj3ch4mu ZH 1 0.0463	nj3ch4mu qqZZ 2 0.1709	nj3ch4mu WH 3 0.0757	nj3ch4mu ttH 4 0.0373	nj3ch4mu ggZZ 5 0.01	nj3ch4mu zjets 6 1.1102	nj3ch4mu ggH 7 0.7125	nj3h4e qqH 0 0.1354	nj3h4e ZH 1 0.0294	nj3h4e qqZZ 2 0.0639	nj3h4e WH 3 0.0416	nj3h4e ttH 4 0.0218	nj3h4e ggZZ 5 0.0049	nj3h4e zjets 6 0.1103	nj3h4e ggH 7 0.3767	nj3ch2e2mu qqH 0 0.3138	nj3ch2e2mu ZH 1 0.0651	nj3ch2e2mu qqZZ 2 0.1339	nj3ch2e2mu WH 3 0.0992	nj3ch2e2mu ttH 4 0.0486	nj3ch2e2mu n ggZZ z 5 6 0.0106 1	nj3ch2e2mu nj3ch2e2mu rjets ggH 5 7 1.1566 0.8836
BRhiggs_hzz4l lnN CMS_trig lnN EWcorr_qqZZ lnN	1.02 1.02 -	1.02 1.02 -	- 1.02 1.0012/0	1.02 1.02 9.998798 -	1.02 1.02 -	- 1.02 -	- - - - 1 25	1.02 1.02	1.02 1.02	1.6	02 02	- 1.02 1.0012/0.998798	1.02 1.02 3 -	1.02 1.02	- 1.02 -	- - - 1 22	1.02 1.02	1.02 1.02	1.02 1.02	- 1.02 1.0012	1.02 1.02 /0.998798 -	1.02 1.02	- 1.02 -	- - - 1 22	1.02 1.02	1.02 1.02	1.02 1.02	1.02 1.0012/0.9	1.02 1.02 998798 -	1.02 1.02	- 1.02 -	- - - 1 25	1.02 1.02	1.02 1.02	1.02 1.02	- 1.02 1.0012/0.9987	1.02 1.02 98 -	1.02 1.02	1.02	- - - 1 22	1.02 1.02	1.02 1.02	1.02 1.02	- 1.02 1.0012/0.99879	1.02 1.02 8 -	1.02 1.02	1.02	1.02
ID_reco_eff lnN  JES lnN  QCDscale_WH lnN  OCDscale_7H lnN	1.025 1.0334/0.9	1.025 9.9775 1.0186/0.	1.025 .984 1.0078/0	1.025 0.9869 1.0086/0 1.005/0.	1.025 0.988 1.0312/0 993 -	1.025 0.9726 1.018/0	/0.9799 - - -	1.025 1.0141 -	1.09 1/0.9849 1.03	1.6 34/0.9775 1.6 -	09 0186/0.984	1.09 1.0078/0.9869	1.09 1.0086/0.988 1.005/0.993	1.09 1.0312/0.97	1.09 726 1.018/0.9	799 - -	1.09 1.0141 -	1.057 /0.9849 1.0334	1.05 1/0.9775 1.01 - 1.03	7 1.057 36/0.984 1.0078 -	1.057 /0.9869 1.0086 1.005/	1.057 5/0.988 1.0312/ /0.993 -	1.057 1.018/ - -	/0.9799 - -	1.057 1.0141	1.025 /0.9849 1.0334/0	1.025 9775 1.0186/0.	1.025 984 1.0078/0.9	1.025 9869 1.0086/0. 1.005/0.9	1.025 988 1.0312/0.9	1.025 9726 1.018/0.97 -	799 - -	1.025 1.0141/0.984 -	1.09 1.0334/0.977 -	1.09 5 1.0186/0.984 -	1.09 1.0078/0.9869 -	1.09 1.0086/0.988 1.005/0.993	1.09 1.0312/0.9726 -	1.09 1.018/0.9799		1.09 1.0141/0.9849 -	1.057 9 1.0334/0.977	1.057 1.0186/0.984 - 1.038/0.969	1.057 1.0078/0.9869	1.057 1.0086/0.988 1.005/0.993	1.057 1.0312/0.9726	1.057 - 1.018/0.9799 - 	1.057 1.0141/0.9
QCDscale_ggH lnN QCDscale_ggVV_bonly lnN	- - 1 004/0 0		- -	-	-	1.039/0 1.1	/0.961 - -	1.039/ -	'0.961 - - 1.00			-	-	-	1.039/0.9 1.1	61 - -	1.039/ -	0.961 -	- - - -	- -	-	- -	1.039/ 1.1	/0.961 - -	1.039/	0.961 -		- -	-	-	1.039/0.96 1.1	51 -	1.039/0.961	- - 1 004/0 007	-	- -	-	-	1.039/0.961 1.1	-	1.039/0.961 -	- - 1 004/0 007	-	-	-	- -	1.039/0.961 - 1.1 -	1.039/0.96
QCDscale_qqZZ lnN QCDscale_ttH lnN b_tag lnN ele_en_scale lnN jlpt shape j2pt shape j3kShape shape	1.004/0.9 - 1.01 - 1.0 1.0	1.01 - 1.0 1.0	1.032/0. - 1.01 - 1.0 1.0	.958 - - 1.01 - 1.0 1.0	1.058/0 1.01 - 1.0 1.0	.908 - 1.01 - 1.0 1.0	- - - - - -	1.01 - 1.0 1.0	1.004 - 1.01 1.00 1.0	. 1.6 3 1.6 1.6	01 003 0	1.032/0.958 - 1.01 1.003 1.0	1.01 1.003 1.0	1.058/0.908 1.01 1.003 1.0	1.01 1.003 1.0 1.0	- - - - -	1.01 1.003 1.0	1.004/ - 1.01 - 1.0 1.0	1.01 - 1.0 1.0 1.0	1.032/ - 1.01 - 1.0 1.0	0.958 - 1.01 - 1.0 1.0	1.058/0 1.01 - 1.0 1.0	0.908 - 1.01 - 1.0 1.0	- - - - - -	1.01 - 1.0 1.0	1.004/0. - 1.01 - 1.0 1.0 1.0	1.01 - 1.0 1.0 1.0	1.032/0.95 - 1.01 - 1.0 1.0	1.01 - 1.0 1.0 1.0	1.058/0.90 1.01 - 1.0 1.0	- - - 1.01 - 1.0 1.0	- - - - - -	1.01 - 1.0 1.0	1.004/0.997 - 1.01 1.003 1.0 1.0	1.01 1.003 1.0	1.032/0.958 - 1.01 1.003 1.0	1.01 1.003 1.0	1.058/0.908 1.01 1.003 1.0	1.01 1.003 1.0	- - - - -	1.01 1.003 1.0	1.004/0.99/ - 1.01 - 1.0 1.0 1.0	1.01 - 1.0 1.0	1.032/0.958 - 1.01 - 1.0 1.0	1.01 - 1.0 1.0 1.0	1.058/0.908 1.01 - 1.0 1.0	1.01 - 1.00 - 1.0 -	1.01 - 1.01 - 1.0
j3pt shape l1pt shape l2pt shape l3pt shape l4pt shape lumi_13TeV lnN mass_resol lnN mu ele en scale lnN	1.0 1.0 1.0 1.0 1.0 1.026	1.0 1.0 1.0 1.0 1.026	1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 1.0 1.026	1.0 1.0 1.0 1.0 1.0 1.026	1.0 1.0 1.0 1.0 1.0	- - - - - - -	1.0 1.0 1.0 1.0 1.026	1.0 1.0 1.0 1.0 1.02 1.2	1.6 1.6 1.6 1.6 1.6 1.2	0 0 0 0 0 0 026 2	1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 1.0 1.026	1.0 1.0 1.0 1.0 1.0 1.026	1.0 1.0 1.0 1.0 1.0	- - - - - - -	1.0 1.0 1.0 1.0 1.0 1.026	1.0 1.0 1.0 1.0 1.026 1.2	1.0 1.0 1.0 1.0 1.02 1.2	1.0 1.0 1.0 1.0 1.0 5 1.026	1.0 1.0 1.0 1.0 1.026 1.2 1.0017	1.0 1.0 1.0 1.0 1.0 1.026 1.2	1.0 1.0 1.0 1.0 1.026	- - - - - - - - -	1.0 1.0 1.0 1.0 1.026 1.2	1.0 1.0 1.0 1.0 1.0 1.026	1.0 1.0 1.0 1.0 1.0 1.2	1.0 1.0 1.0 1.0 1.0 1.026	1.0 1.0 1.0 1.0 1.0 1.2	1.0 1.0 1.0 1.0 1.0 1.026	1.0 1.0 1.0 1.0 1.0 1.026	- - - - - -	1.0 1.0 1.0 1.0 1.0 1.026	1.0 1.0 1.0 1.0 1.0 1.026	1.0 1.0 1.0 1.0 1.0 1.026	1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 1.0 1.026	1.0 1.0 1.0 1.0 1.0 1.026	1.0 1.0 1.0 1.0 1.0	- - - - - -	1.0 1.0 1.0 1.0 1.0 1.026	1.0 1.0 1.0 1.0 1.0 1.026 1.2 1.0017	1.0 1.0 1.0 1.0 1.0 1.026 1.2 1.0017	1.0 1.0 1.0 1.0 1.0 1.026	1.0 1.0 1.0 1.0 1.0 1.026 1.2	1.0 1.0 1.0 1.0 1.0 1.026 1.2 1.0017	1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.00 - 1.026 - 1.0017 -	1.0 1.0 1.0 1.0 1.0 1.0 1.026 1.2 1.0017
lumi_13TeV lnN mass_resol lnN mu_ele_en_scale lnN mu_en_scale lnN pdf_Higgs_gg lnN pdf_Higgs_qq lnN pdf_Higgs_ttH lnN pdf_qqZZ lnN CMS_zz4l_bkg_kdShape param 0	1.0004 - 1.021/0.9 -	1.0004 - .979 1.016/0.9	1.0004 - 984 - - 1.031/0	1.0004 - 1.019/0. - .966 -		1.0004 1.032/0 - .964 - -	4 - /0.968 - - - -		-	- - 1/0.979 1.6 - -	016/0.984	- - - 1.031/0.966	- 1.019/0.981 - -	- - - 1.036/0.964 -	1.032/0.9 - 4 -	- 68 - - - -	1.032/ - - -	0.968 - 1.021,		5/0.984 - 1.031/	- 1.019/	- /0.981 -	1.032/	/0.968 - -	1.032/	1.0004 0.968 - 1.021/0.	1.0004 - 079 1.016/0.9	1.0004 - 984 -	1.0004 - 1.019/0.9 -	1.0004 - 981 - 1.036/0.9	1.0004 1.032/0.96 - 64 -	- 58 - - - -	1.0004 1.032/0.968 - -	- - 1.021/0.979 - -	- 1.016/0.984 - -	- - - - 1.031/0.966	- 1.019/0.981 - -	- - - 1.036/0.964 -	1.032/0.968 - -	- - - -	- 1.032/0.968 - - -	1.021/0.979 - - -	- 1.016/0.984 -	- - - - 1.031/0.966	1.019/0.981 - - -	1.036/0.964	1.032/0.968 - 	1.032/0.96