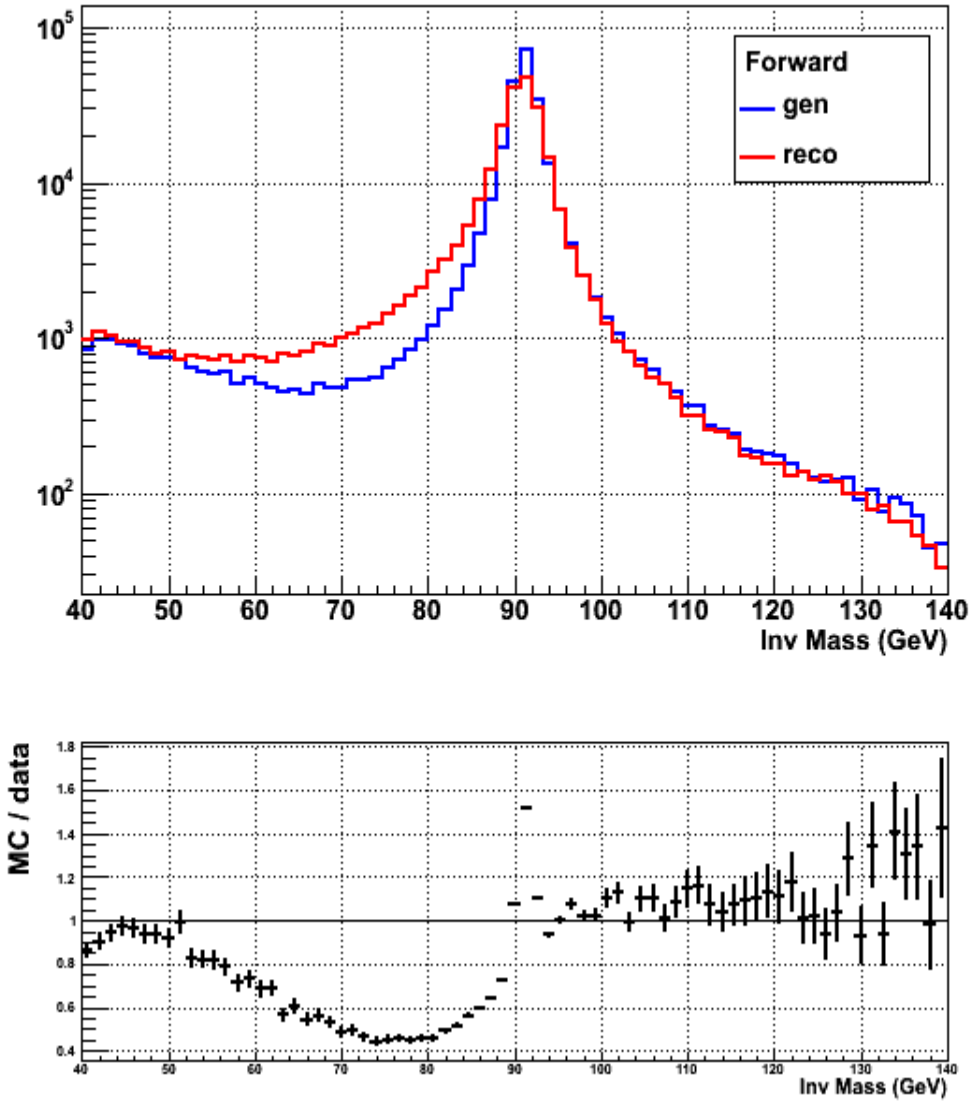
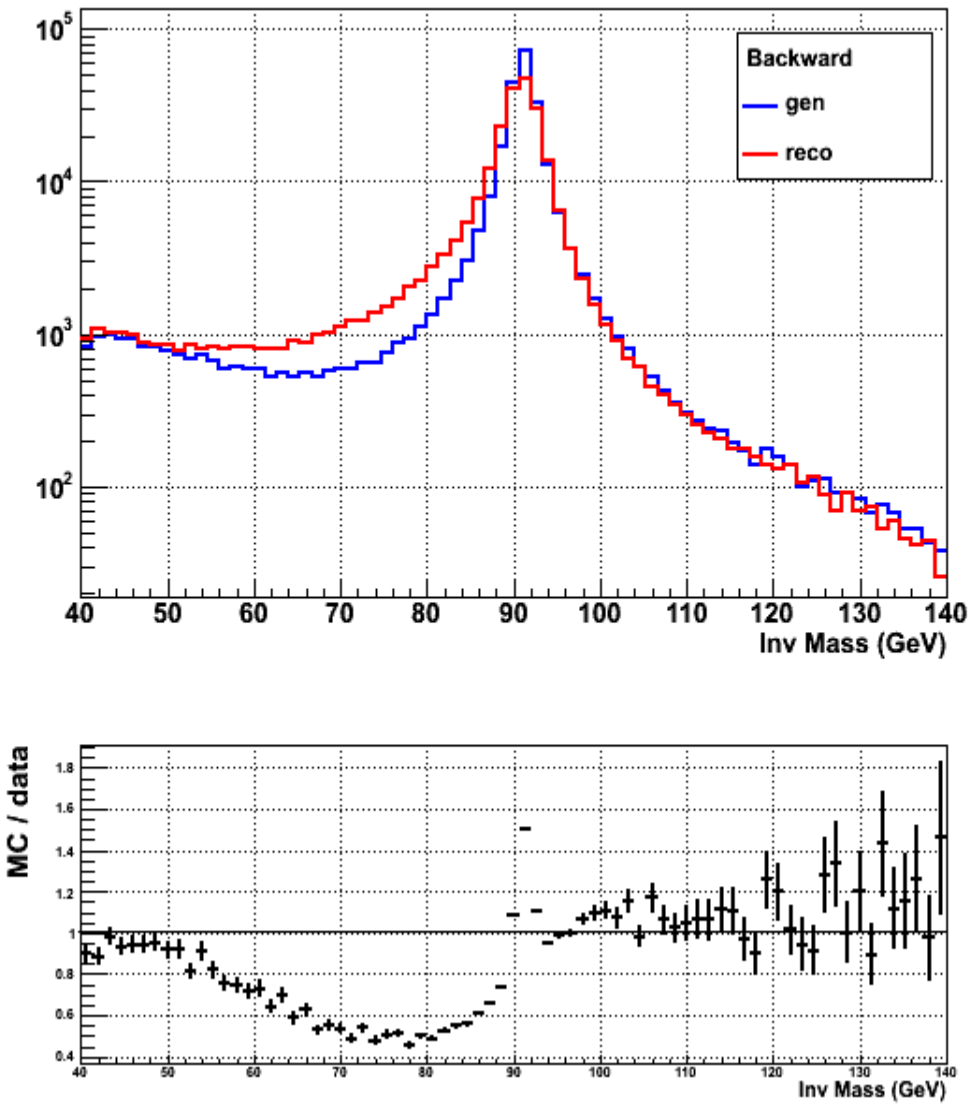
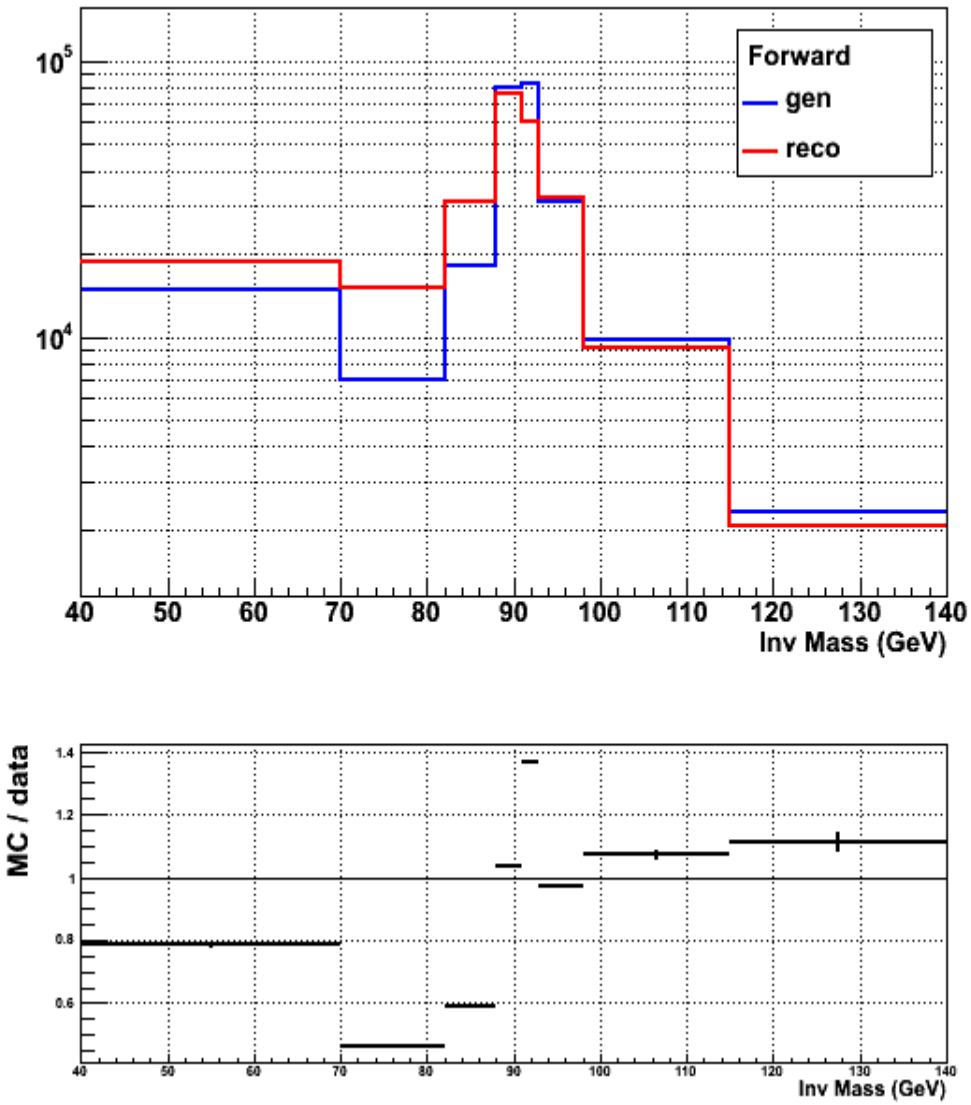
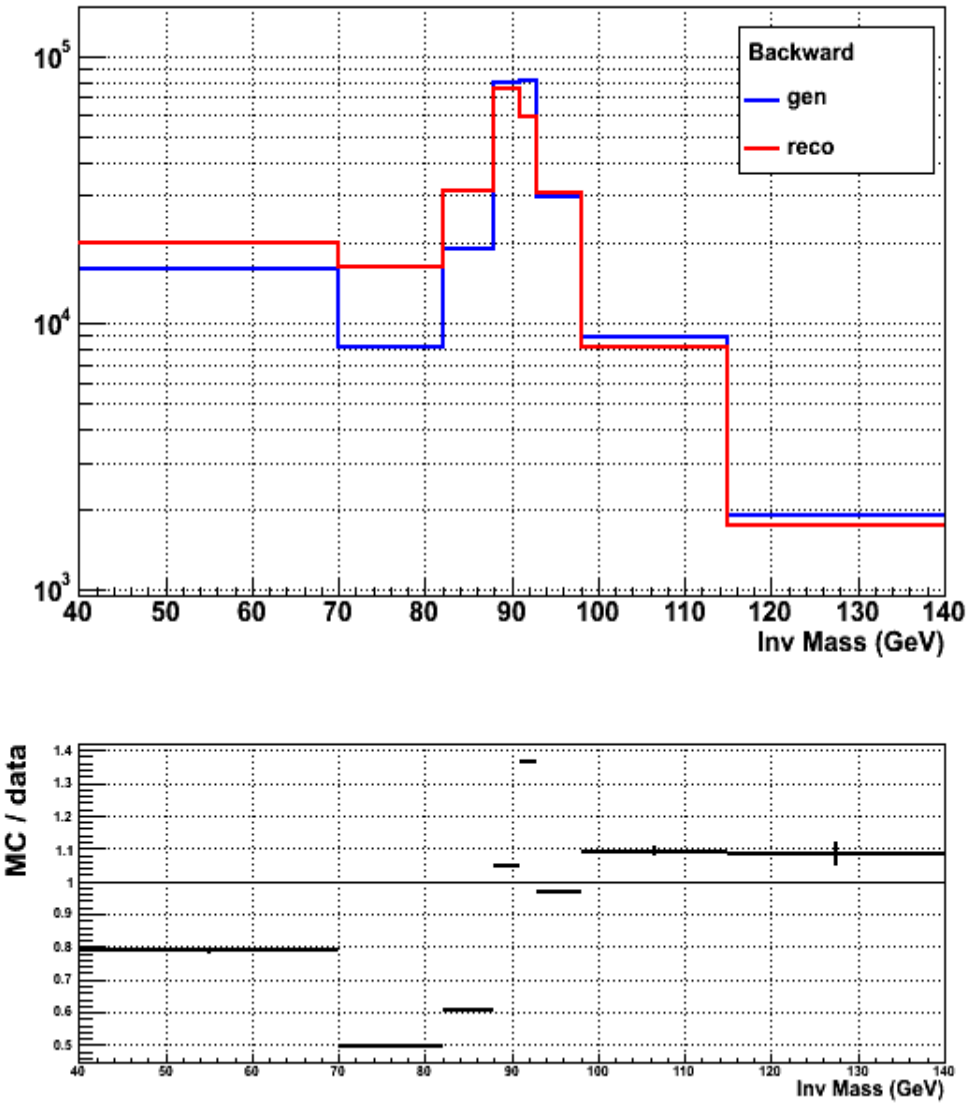
Study of bin migration (gen->reco)



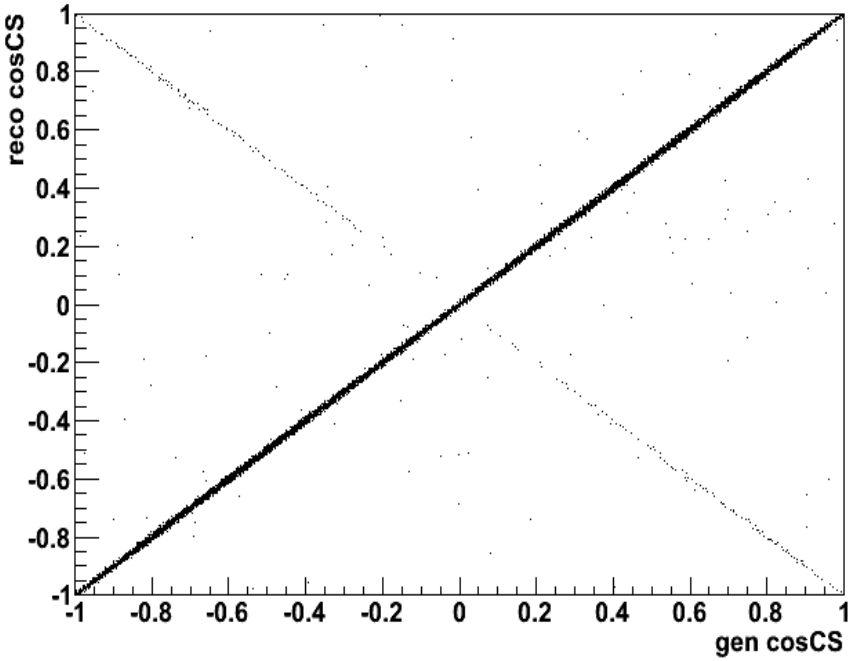


Bin migration (gen->reco) for our analysis current binning





Are there many events generated as Forward and reconstructed as Backward?



Fraction of off-diagonal events: **1.4%**

Considering only FF and BB events

Matrix element (Mff): Nff[recobin][genbin] / Nf[genbin]
Matrix element (Mbb): Nbb[recobin][genbin] / Nb[genbin]

Forward:

0.99	0.074	0.023	0.017	0.015	0.015	0.0077	0.0026
0.0058	0.88	0.096	0.041	0.035	0.028	0.015	0.0078
0	0.042	0.78	0.13	0.054	0.034	0.014	0.0043
0	0	0.096	0.64	0.27	0.044	0.012	0.0039
0	0	0.00055	0.16	0.51	0.17	0.012	0.0039
0	0	0.00016	0.0072	0.11	0.68	0.11	0.0095
6.8e-05	0	0	0.00016	0.00026	0.027	0.82	0.099
0	0	0	2.5e-05	2.4e-05	0	0.007	0.87

Backward:

0.99	0.075	0.026	0.018	0.016	0.013	0.0092	0.0021
0.0054	0.89	0.097	0.042	0.035	0.026	0.015	0.0026
0	0.037	0.78	0.13	0.055	0.035	0.016	0.0031
0	0.00012	0.097	0.64	0.27	0.044	0.013	0.0026
0	0.00012	0.00058	0.16	0.51	0.18	0.01	0.0026
0	0	0.00031	0.007	0.11	0.68	0.12	0.0042
0	0	5.2e-05	3.8e-05	0.00022	0.024	0.81	0.1
0	0	0	0	5e-05	0	0.0079	0.88

Mff ~ Mbb. We could use only one for all events.