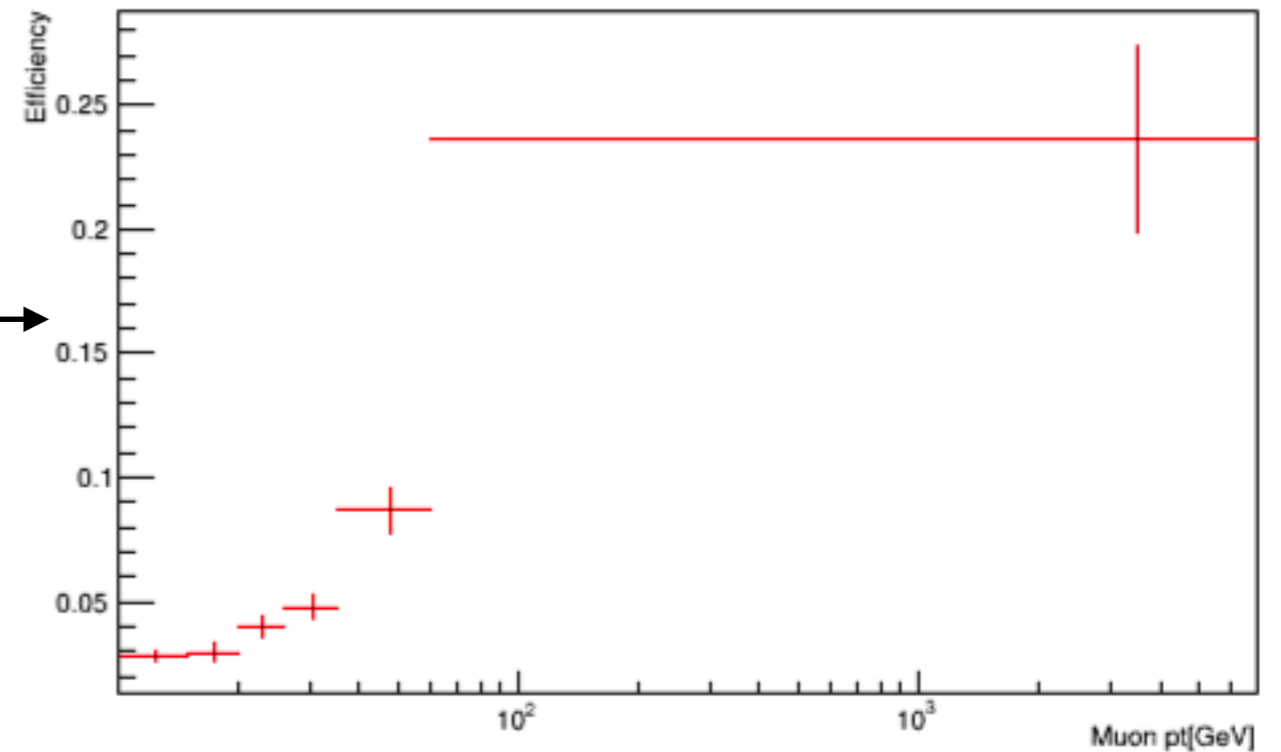
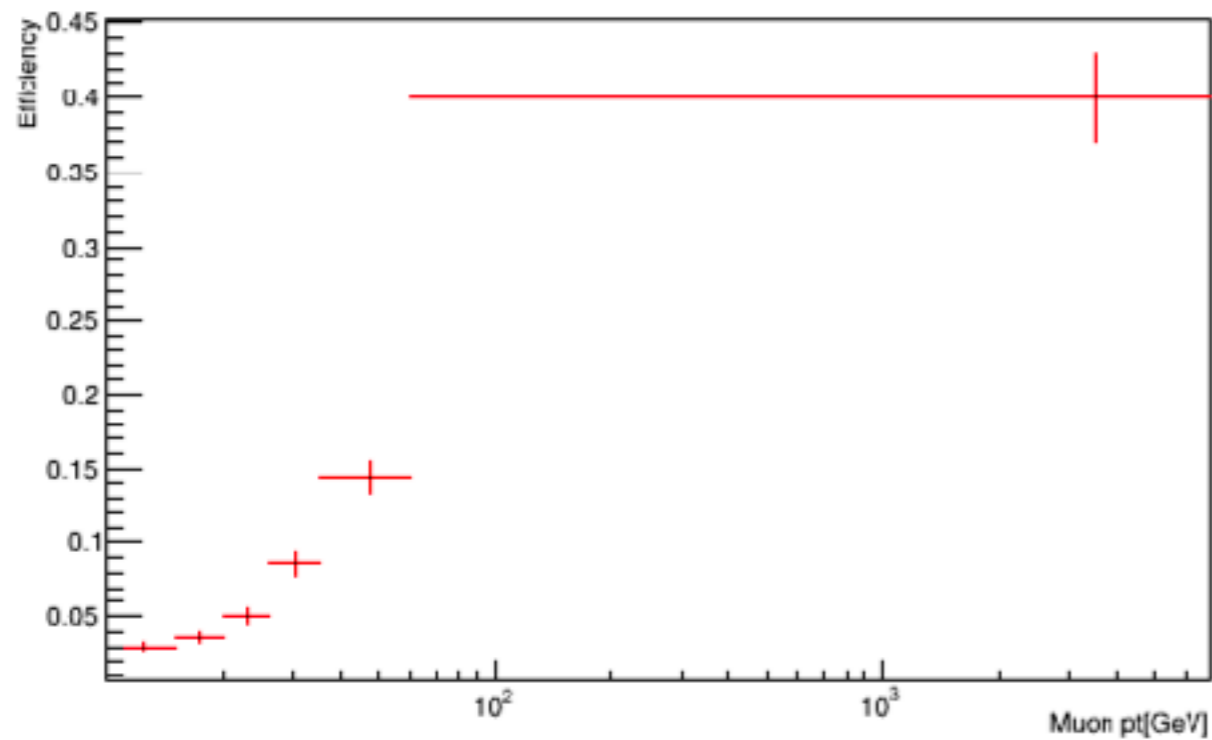


Weekly Report

Shuiting Xin

- D0/Z0 check for electrons
- Fake efficiency for muon
 - More feasible in mumu channel
 - Always treat subleading muon as “probe”



D0/Z0 cut check

Diboson

	row_number	wgt_number	ee	munu	emu
input:	12341864	124658	28970.2	67161.2	28526.2
LooseLeptons:	1410486	10177.8	3612.13	2688.85	3876.77
Loose isolation:	693863	3922.65	1126.38	1321.68	1474.59
pt_ll, match:	628402	3418.41	1038.19	1070.29	1301.93
MET:	589785	3254.3	985.38	1029.75	1249.18
DY:	580925	3207.67	976.727	1001.44	1229.5
Zveto:	549833	2954.1	733.163	1001.44	1229.5
Njet:	230587	713.029	202.124+-2.04903	211.282+-1.79433	299.624+-3.29048
B veto:	213040	560.905	187.86	194.847	278.198
	202.124+-2.04903	211.282+-1.79433	299.624+-3.29048		

	row_number	wgt_number	ee	munu	emu
input:	12341864	124658	28970.2	67161.2	28526.2
LooseLeptons:	1410486	10177.8	3612.13	2688.85	3876.77
Loose isolation:	689085	3847.25	1080.83	1321.68	1444.74
pt_ll, match:	615582	3372	1011.38	1070.29	1290.33
MET:	585140	3228.59	960.894	1029.75	1237.95
DY:	577326	3172.4	952.644	1001.44	1218.31
Zveto:	545936	2936.41	716.656	1001.44	1218.31
Njet:	229443	705.637	198.005+-1.9559	211.282+-1.79433	296.35+-3.24292
B veto:	212011	654.687	184.394	194.847	275.446
	198.005+-1.9559	211.282+-1.79433	296.35+-3.24292		

Signal

	row_number	wgt_number	ee	munu	emu
input:	106479	4.37465	0.877438	1.63178	1.86544
LooseLeptons:	27223	1.36455	0.377172	0.424661	0.562718
Loose isolation:	11846	0.588896	0.131985	0.217295	0.239616
pt_ll, match:	11114	0.543976	0.12609	0.197562	0.222324
MET:	10956	0.536137	0.124246	0.194018	0.217933
DY:	10941	0.534924	0.123967	0.193654	0.217303
Zveto:	10552	0.51689	0.105934	0.193654	0.217303
Njet:	7185	0.319268	0.0726093+-0.00356979	0.116252+-0.00546488	0.130407+-0.0110348
B veto:	6178	0.27442	0.0631319	0.10106	0.110228
	0.0726093+-0.00356979	0.116252+-0.00546488	0.130407+-0.0110348		

	row_number	wgt_number	ee	munu	emu
input:	106479	4.37465	0.877438	1.63178	1.86544
LooseLeptons:	27223	1.36455	0.377172	0.424661	0.562718
Loose isolation:	11639	0.583164	0.128551	0.217295	0.237318
pt_ll, match:	10966	0.540433	0.122618	0.197562	0.220253
MET:	10809	0.530818	0.120939	0.194018	0.215861
DY:	10794	0.529545	0.12066	0.193654	0.215232
Zveto:	10512	0.511473	0.102588	0.193654	0.215232
Njet:	7096	0.316294	0.0705635+-0.00351829	0.116252+-0.00546488	0.129478+-0.0110249
B veto:	6100	0.271733	0.0611557	0.10106	0.109517
	0.0705635+-0.00351829	0.116252+-0.00546488	0.129478+-0.0110249		

Significance

With D0/Z0 :0.0106
Without D0/Z0:0.0106