

Masterclass Event No.	ATLAS ID Nos.		Event Type (check one)				Calculated	Rounded
	Run	Event	Z	W - elec	W - muon	Zoo	Mass	Z Mass
41	186923	93174378					90.2534345	
42	186923	93807223					83.2843165	
43	186923	101794840					91.529985	
44	186923	103508463					39.9497806	
45	186923	105770847					95.1588277	
46	186923	107315444					80.3359956	
47	186923	117533632					90.4483424	
48	186923	118501476					48.4741427	
49	186923	120317981					85.7806301	
50	186923	122658273					90.7102504	
51	186923	133755975					73.6108249	
52	186923	135471982					94.0243831	
53	186923	148414612					95.0557837	
54	186923	148456467					63.7162308	
55	186923	160089139					89.5701662	
56	186923	163461911					82.9056555	
57	186923	170682915					75.0756509	
58	186923	185155957					91.2018992	
59	186923	185805935					73.0682857	
60	186923	186903661					93.4312604	
61	186934	68796951					90.0529191	
62	186934	76571390					56.4642331	
63	186965	22833249					91.3699074	
64	186965	47095605					91.948165	
65	186965	55273156					49.381389	
66	186965	69613743					66.3296532	
67	186965	88847429					68.7699705	
68	186965	93137429					58.0583215	
69	186965	102469925					66.9984343	
70	186965	110488341					66.0323337	
71	186965	145834446					86.359744	
72	186965	148744029					73.8732359	
73	186965	150305727					90.9413512	
74	186965	150824427					71.8228608	
75	186965	154349869					93.0892824	
76	186965	165914383					181.992063	
77	186965	193677757					69.956977	
78	186965	196633146					66.4567084	
79	186965	200203318					91.3613825	
80	186965	200456025					90.3183765	

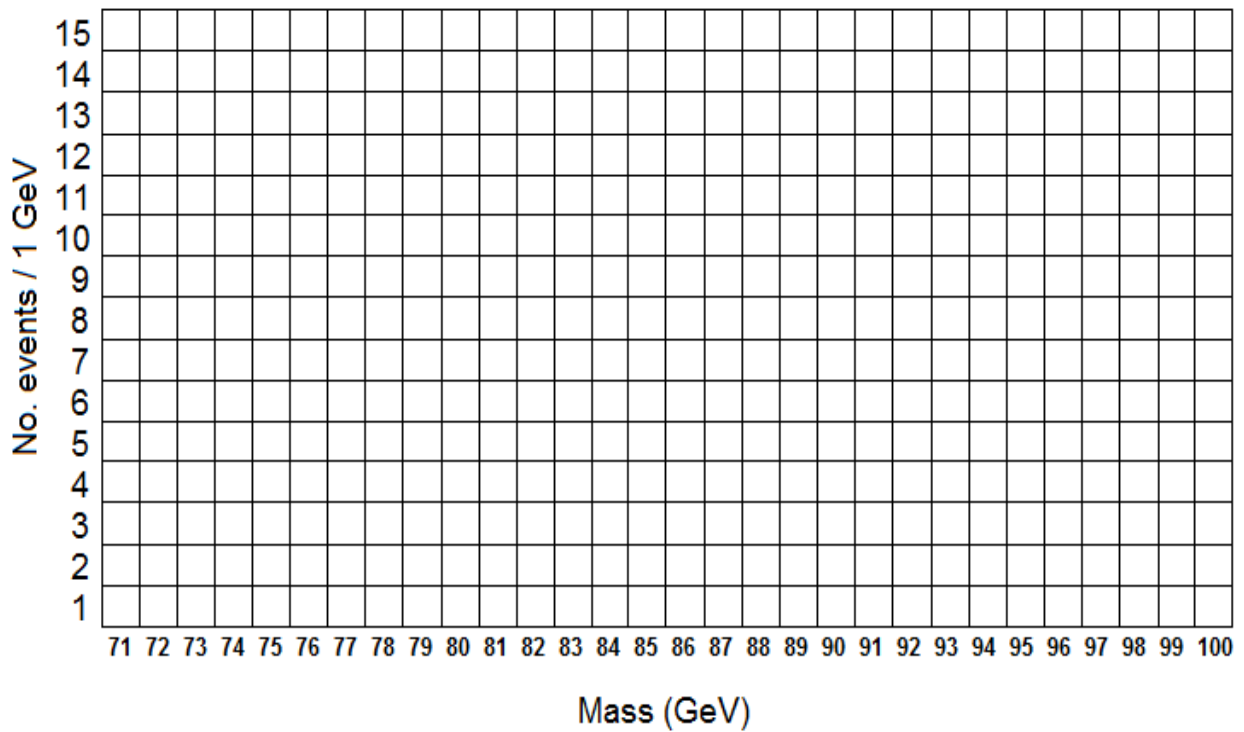
Count the total number of W-electron candidates and the total number of W-muon candidates.

Calculate electron-to-muon ratio:

No. e	No. $\mu$	e/ $\mu$

Contribute your numbers of e and  $\mu$  to group totals.

Your Z mass plot:



Place an X in the appropriate mass bin for each event. Start from the bottom so that the vertical axis represents the number of events in that bin.

Contribute the total number of events in each bin to the group mass plot.