

Masterclass Event No.	CMS ID Run/Event/LS	Event Type (check one)			Zoo	Calculated Mass (GeV)	Rounded Z Mass (GeV)
		Z	W - elec	W - muon			
81	146944/125750751/204					80.2	
82	146944/291385955/316					68.1	
83	146944/569586610/516					51.1	
84	148031/218927218/257					94.1	
85	146944/567990286/515					63.6	
86	146944/660417244/584					77.8	
87	146944/573269643/519					81.2	
88	147114/491677949/490					18.3	
89	146944/290857752/316					72.7	
90	148031/139957782/162					64.4	
91	146944/121344894/201					92.2	
92	146944/231566417/275					76.9	
93	146944/388732741/385					23.3	
94	146944/323702490/339					77.3	
95	146944/389129665/385					61.5	
96	146944/130196392/207					53	
97	146944/563106466/511					78.7	
98	146944/290976906/316					46	
99	148031/140841668/163					95.8	
100	146944/563760478/512					66	
101	146944/568301368/515					79.3	
102	146944/391233900/386					48.6	
103	146944/582334812/525					40.9	
104	146944/395136723/389					25.5	
105	146944/310186759/329					4.4	
106	146944/578306270/522					8.1	
107	146511/39455809/50					59.8	
108	148031/146244017/169					78.3	
109	146944/307722962/328					84.3	
110	146944/200360109/254					2.8	
111	146944/233293064/276					73.9	
112	148031/149028599/173					97.5	
113	146944/274291586/305					39.2	
114	146944/325887078/340					34.8	
115	147390/302627752/353					2.8	
116	146511/39373415/50					78.6	
117	142137/197970649/334					85	
118	146944/316223779/334					47.3	
119	148031/15224652/19					90.8	
120	147114/174658395/273					93.9	

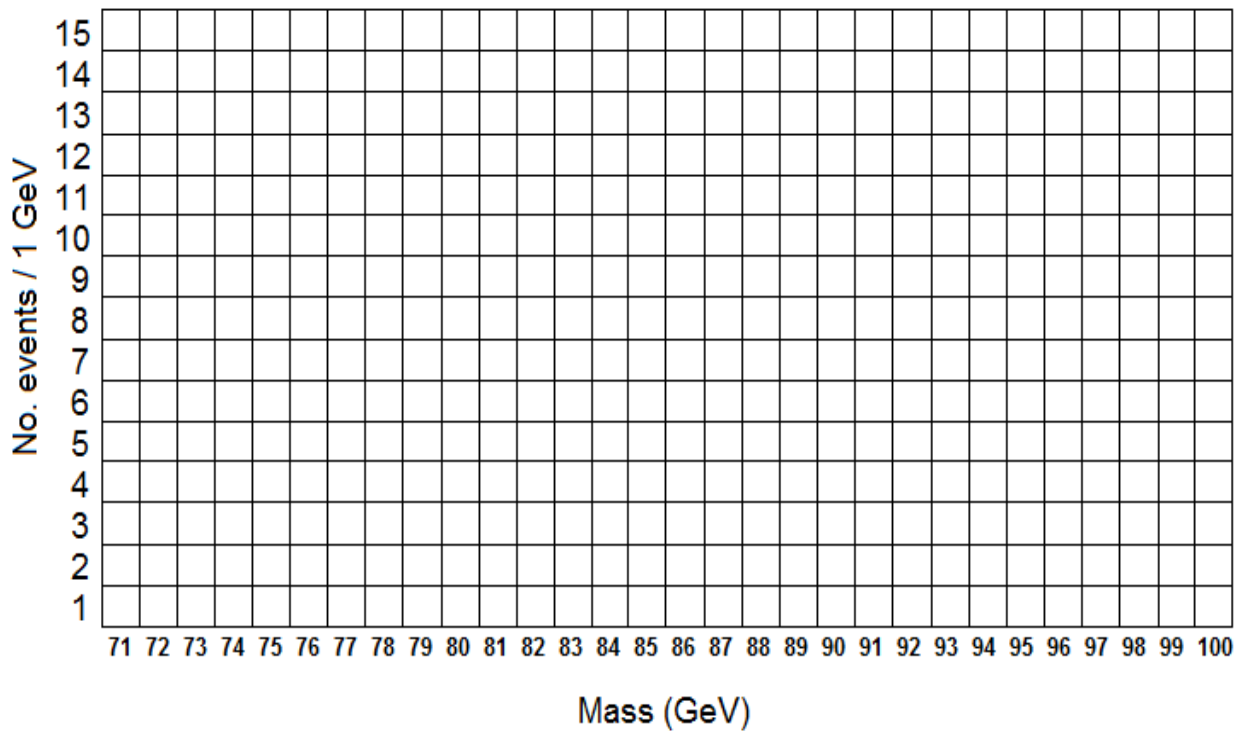
Count the total number of W-electron candidates and the total number of W-muon candidates.

Calculate electron-to-muon ratio:

No. e	No. μ	e/μ

Contribute your numbers of e and μ 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.