

A person's silhouette is centered in the foreground, standing in a server room aisle. The background is filled with rows of server racks, creating a sense of depth and perspective. The lighting is dim, with a warm glow emanating from the server racks, highlighting the person's silhouette.

COMBINATION OF RESULTS

- Instructions -

- We want to **combine the data collected by all the groups in your collaboration** during this exercise
- To do this during the exercise we fill the google excel doc with values of the Z boson masses we have found in the events analyzed.

<https://docs.google.com/spreadsheets/d/1M8Js4TUGhHsbe70kBCHzQOPvhDoOZUuznSwQFIdGGXc/edit?userstoinvite=ndrrini3@gmail.com&ts=5a04268e&actionButton=1#gid=0>

- There is a spreadsheet for ATLAS and one for CMS
- Each group has its own column that can be filled with the numbers of the Z boson mass computed

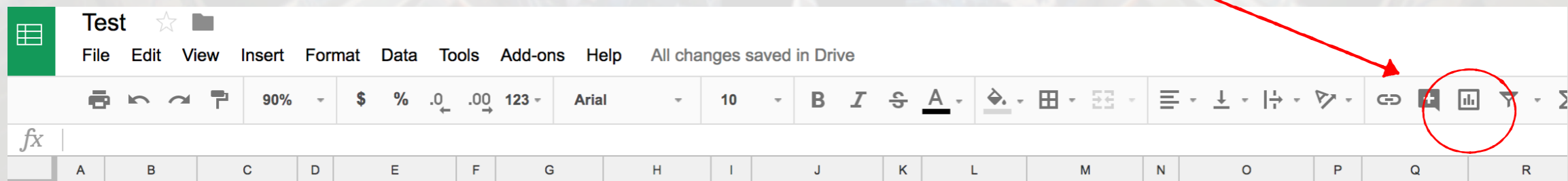
3. Make the plot of your own group

3.1 Select the **Frequency column** of your group and click on the plotting **chart icon**

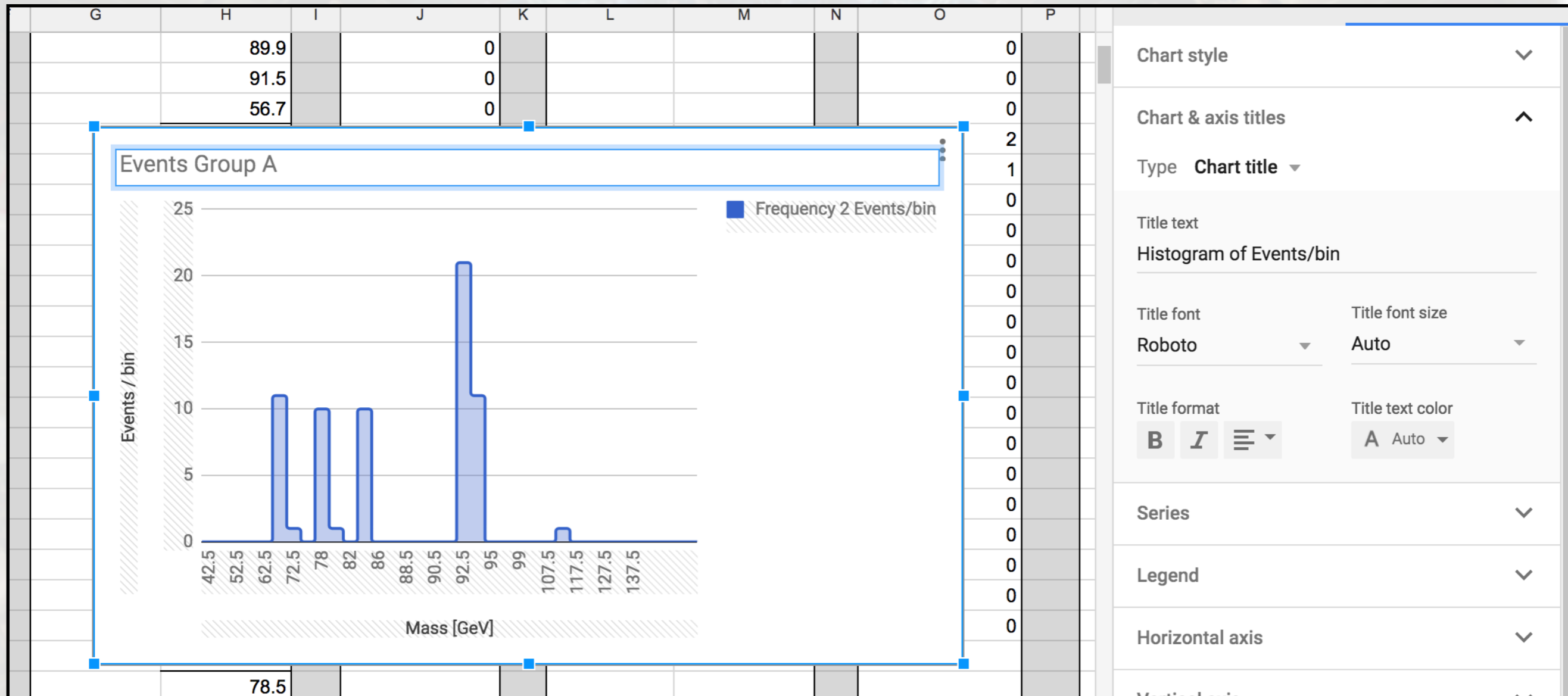
The screenshot shows a Google Sheet with the following data:


	A	B	C	D	E	F
1		Analysis Group 1			Frequency 1	
2		Event ID	Mass [GeV]		Events/bin	
3					0	
4					0	
5					0	
6					0	
7					0	
8					0	
9					0	
10					0	
11					0	
12					0	
13					0	
14					0	
15					0	
16					0	
17					0	
18					0	
19					0	
20					0	
21					0	
22					0	
23					0	
24					0	
25					0	
26					0	
27					0	

A red circle highlights the 'Frequency 1' column (E) and the 'Events/bin' header. A red arrow points from the 'Frequency column' text in the instructions to this column.



4. Customize your plot fixing axis labels, title, style



A person's silhouette stands in the center of a large, complex particle detector tunnel, likely the LHC. The tunnel is filled with intricate machinery, pipes, and cables, creating a dense, industrial environment. The lighting is dim, with a bright light source at the end of the tunnel, creating a strong silhouette effect. The text 'AND NOW LET'S COMBINE CMS AND ATLAS RESULTS!' is overlaid on the image in a bold, handwritten font. 'CMS' is in red, and 'ATLAS' is in blue.

AND NOW LET'S COMBINE CMS
AND ATLAS RESULTS!