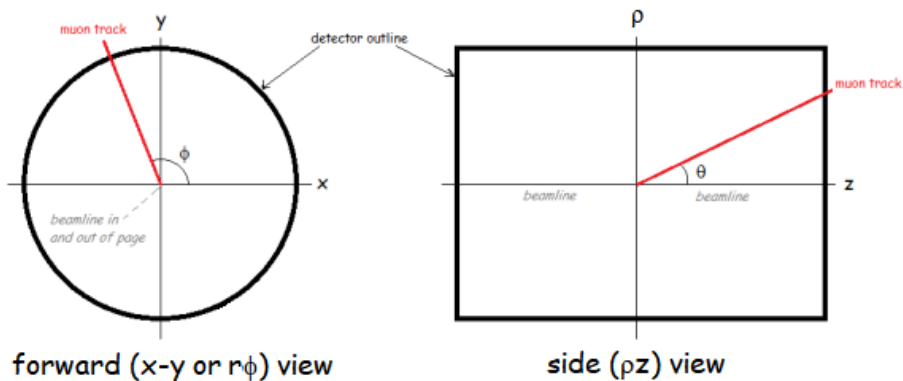


Operator(s): _____

Experiment (check one): _____ ATLAS _____ CMS Data set: _____

Materials needed: internet-connected computer, protractor

Measurements:



Tallies for angle ϕ (place tick mark for each angle of a muon track measured closest to one of these below):

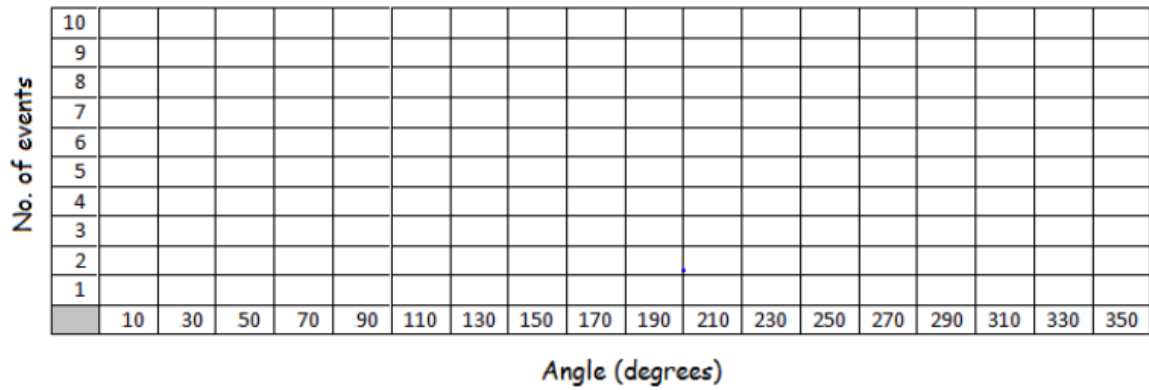
Angle (degrees)	Tick marks	Angle (degrees)	Tick marks
10		190	
30		210	
50		230	
70		250	
90		270	
110		290	
130		310	
150		330	
170		350	

Tallies for angle θ (place tick mark for each angle of a muon track measured closest to one of these below):

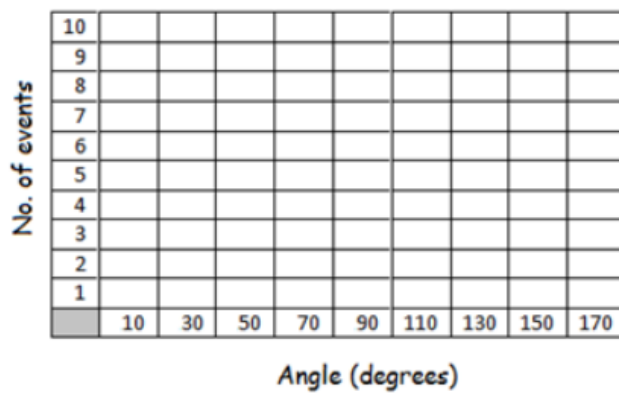
Angle (degrees)	Tick marks
10	
30	
50	
70	
90	
110	
130	
150	
170	

Make histograms from your own data!

Phi (ϕ):



Theta (θ):



Turn in your results to your teacher, who will load it onto the Worldwide Google Sheet.

To learn more, go to <http://tiny.cc/w2d2>.