

CALIFORNIA SCIENCE & ENGINEERING FAIR 2019 PROJECT SUMMARY

Name(s)	Project Number
Andrew Pool	11722
	JIIZZ
Project Title Space Particles from Space: Altitude's Effect on the Number of Subatomic Particles Viewed in a Wilson Cloud Chamber	
The objective of this study is to determine if a change in altitude influence are observed in a Wilson's Cloud Chamber. Methods	es how many subatomic particles
Utilized a homemade Wilson Cloud Chamber, a device used to visualize s different altitudes. Five minute tests were performed three times at each al particle trails were counted while reviewing the film.	ubatomic particles, at two titude and filmed. Subatomic
Results More subatomic particles were viewed at a higher elevation (average of 29 (average of 15 per test).	9 per test) than at a lower elevation
Repeated Trials at each altitude level proved that more background radiati altitude. This proves that higher altitudes contain more airborne radiation	on can be viewed at a higher than at lower altitudes.
Summary Statement	
I observed more subatomic particles at an altitude greater than 5000 ft tha ft, viewed through a Cloud Chamber.	n at an altitude lower than 700
Help Received	
I used a blueprint of a Wilson Cloud Chamber via Sciencebuddies.org and had my mother help me with the recording of the experiment as well as th	a project I did two years ago. I e total count of subatomic