



TEST THE EFFECTIVENESS OF DIFFERENT TYPES OF AEROGEL AS PROTECTION AGAINST GAMMA AND COSMIC RADIATION.



SCHOOL: ADVANCED TECHNOLOGIES ACADEMY

LOCATION: LAS VEGAS, NV

FLIGHT PROVIDER: AEROSTAR

GRADES: HIGH SCHOOL

STUDENT EXPERIMENT DESCRIPTION

We want to better understand the properties of aerogel, specifically as an insulator against radiation during space travel. The idea of this experiment is to test the effectiveness of aerogel and carbon aerogel in protecting against Gamma and Beta radiation, radiation. We will use three radiation detectors. One will be unprotected, the other protected in 2 cm aerogel, and the other in 2cm of carbon aerogel. We will compare the data from each after the experiment.