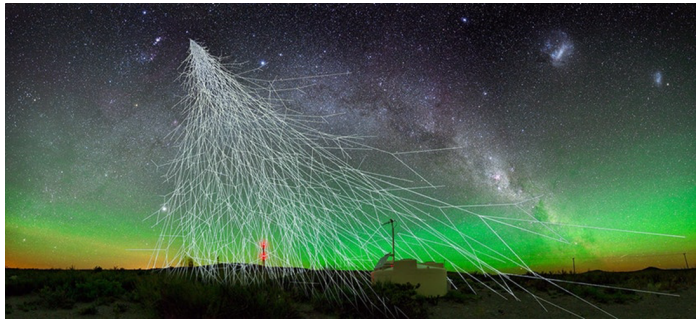
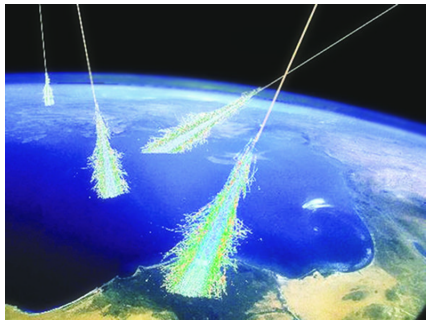


Task 16-02



- Cosmic rays entering the Earth's atmosphere collide with gas molecules creating secondary particles
  - Your scientist has developed an instrument to capture the trajectory of these secondary particles as they rain down and has given you a data file (**ray.csv**) of an individual particle's height (in centimeters) over the final **nanoseconds** before its impact
  - The scientist knows the secondary particle was **not** accelerating in his detector and lived for only **0.1743 milliseconds** and now he wants you to determine its velocity (relative to) and the height (in **km**) in the *stratosphere* at which it was originally emitted
- Create **plot_trajectory.py** to display the particle's path and the line of best fit to determine the two unknowns
- Upload your solution to the BNL QIS101 SharePoint site