

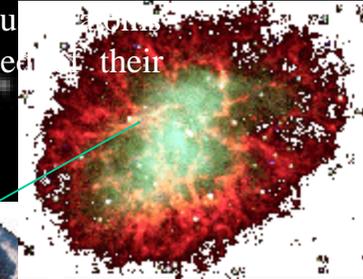
Cosmic Rays – Direct From Outer Space

Normally, the JLab detectors have a more down to earth use – detection of the exotic particles created by the accelerator. Here we are detecting cosmic rays that are generated from outside our solar system. The energy of some of these cosmic rays are billion times times greater than the highest energies achievable in man-made accelerators.



This model of photo detector is normally used to detect beam loss in the JLab accelerators.

Cosmic “Rays” are actually particles that have been stripped of their electrons.



The surface of the earth is bombarded, on average, by about 100 particles per square meter per second. These particles are created by the collision of cosmic rays and the earth’s atmosphere.

