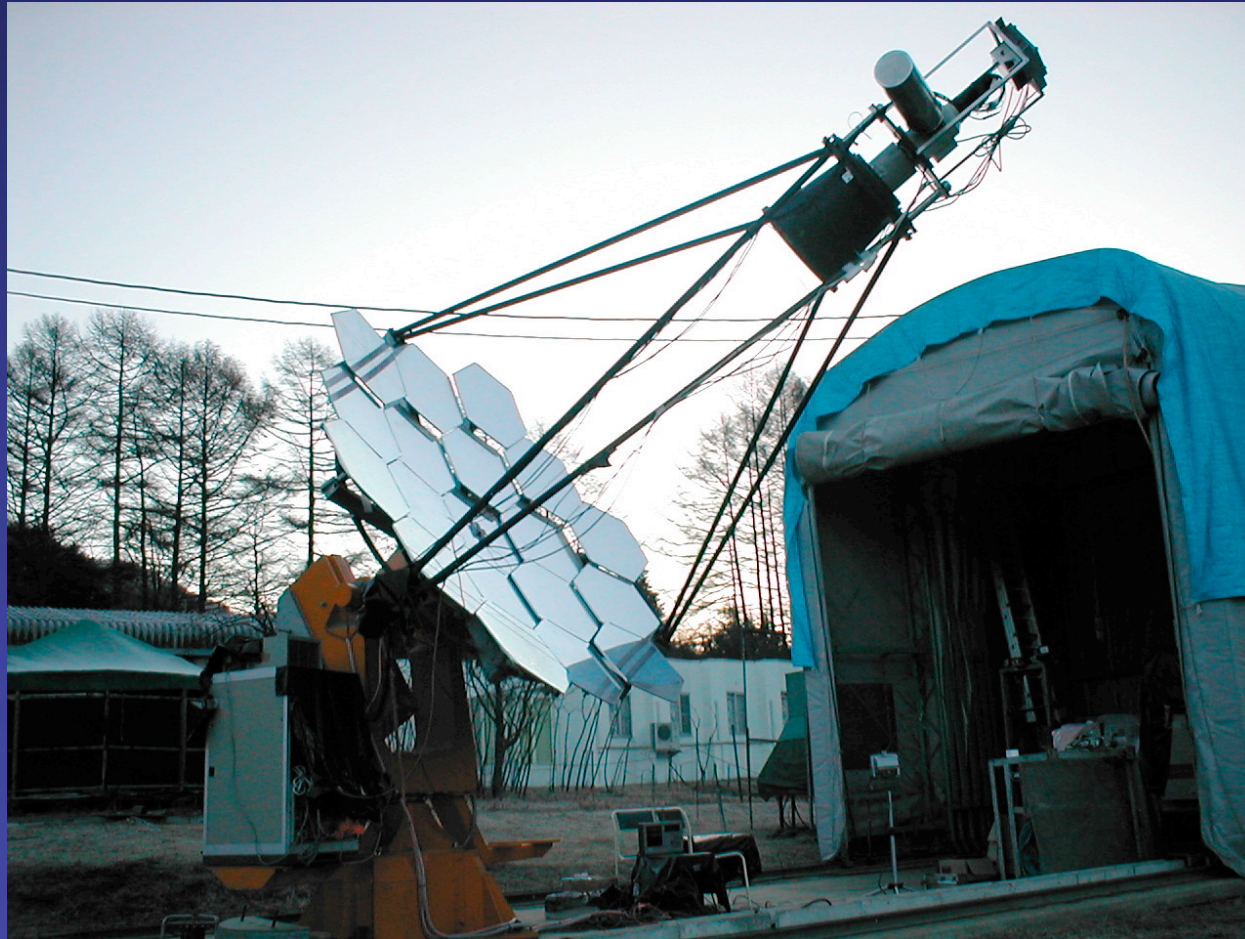


Haleakala Test Observation for TeV-gamma

Okumura, Akira
ICRR, Univ. Tokyo



Ashra Proto-0

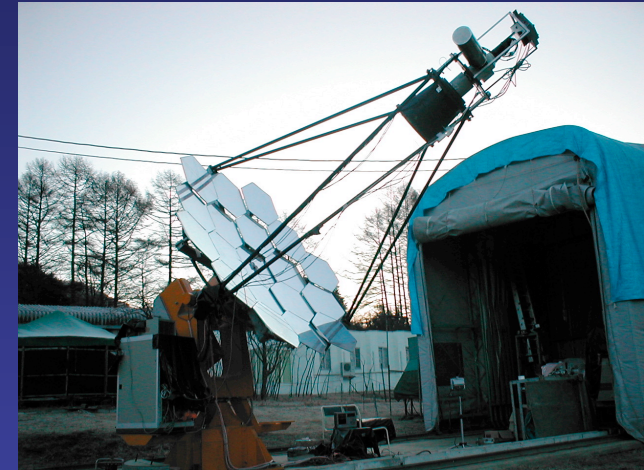


@Akeno Observatory(900m), Japan

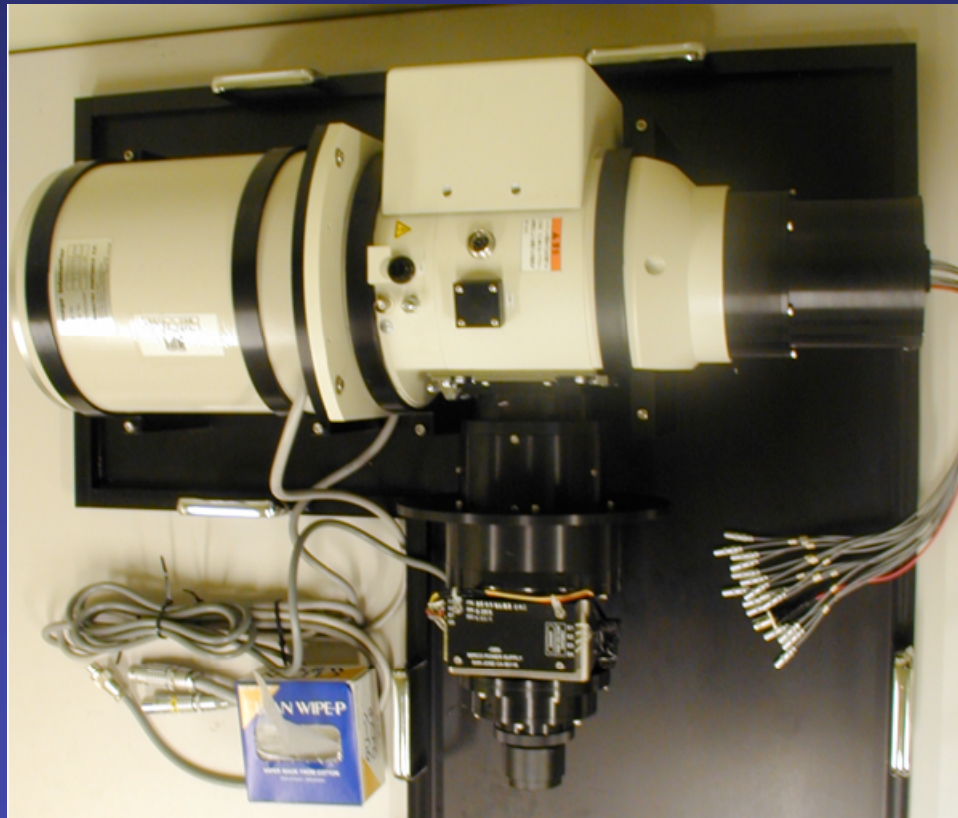


Optics

- Davis-Cotton Optics
- Aperture: 3m
- Focal Length: 3m
- FOV: 1.9deg
- Resolution: 0.1deg



Prototype of Image Pipeline



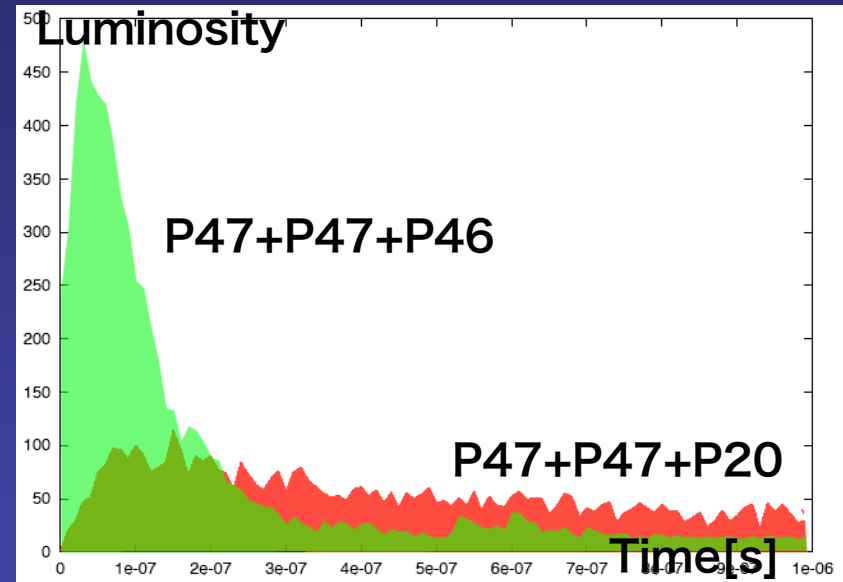
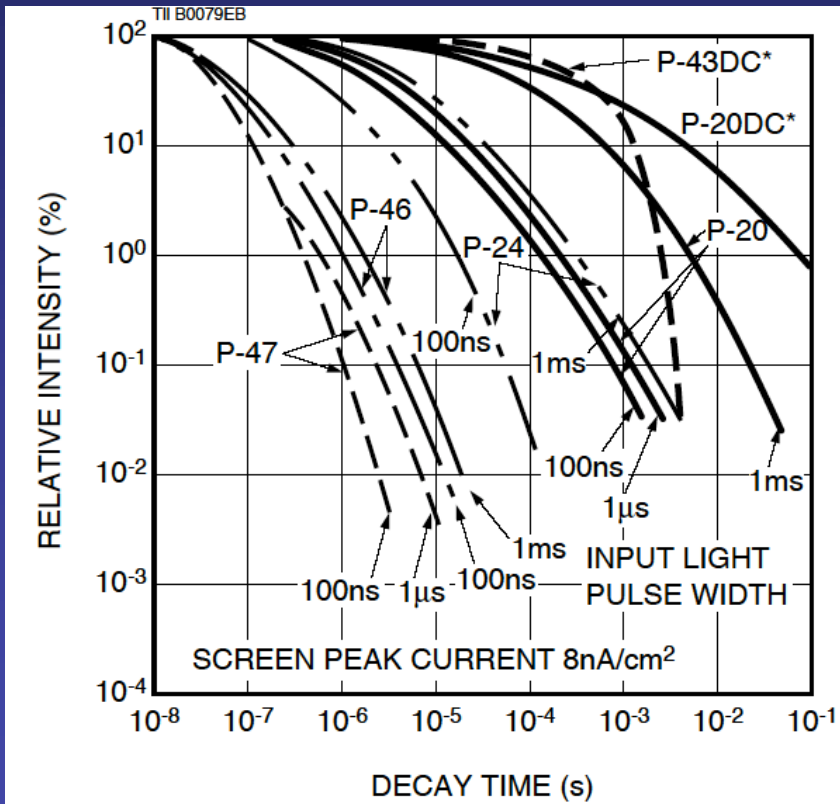
Must be Improved !

Improvements of Proto-0

- 1) Phosphor of Delay I.I.
- 2) CCD Camera
- 3) DAQ & Trigger System
- 4) Mirrors

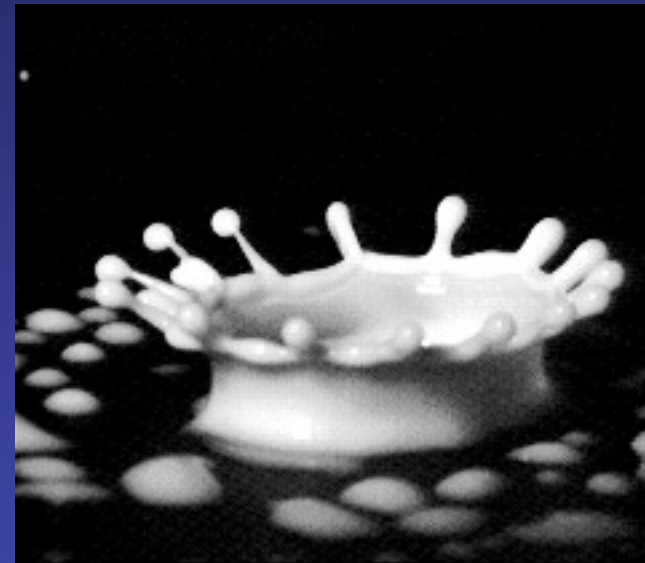


Phosphor of Delay I.I.



Simulation of luminosity

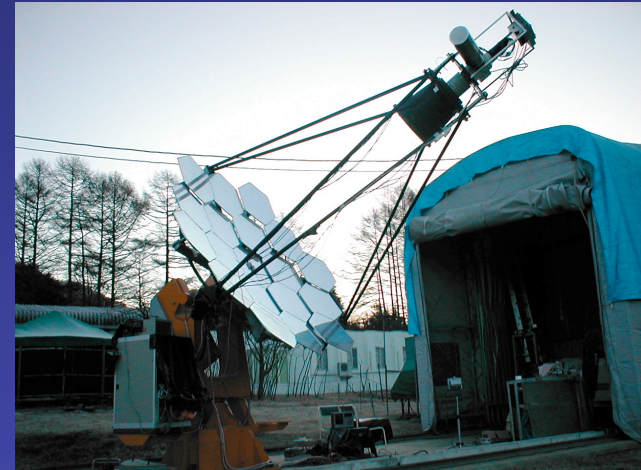
CCD Camera



High Speed camera
instead of CMOS fine sensor

DAQ & Trigger System

Now Printing



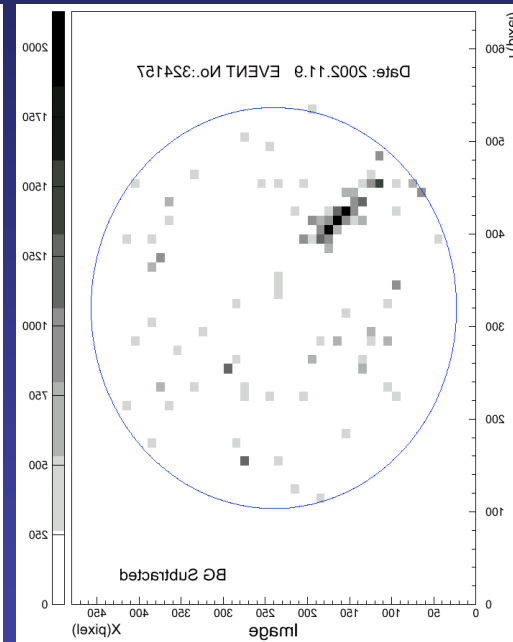
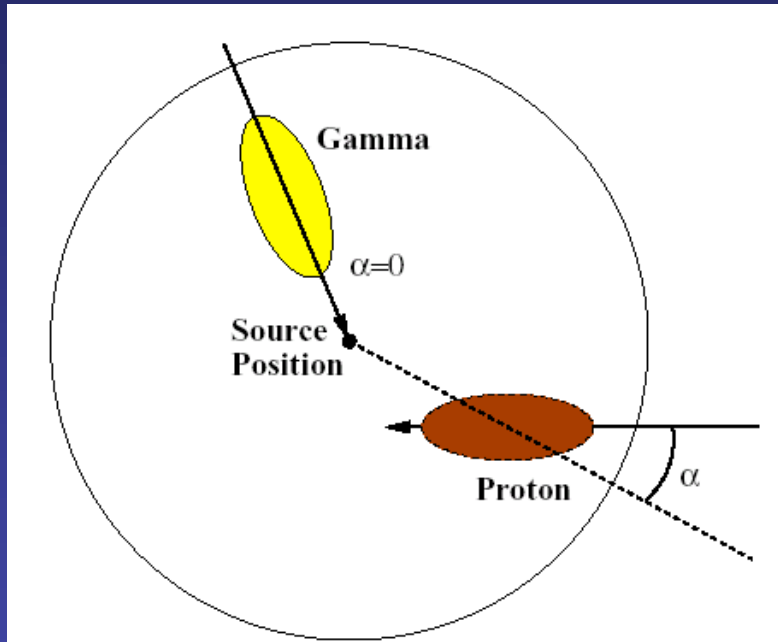
Mirrors



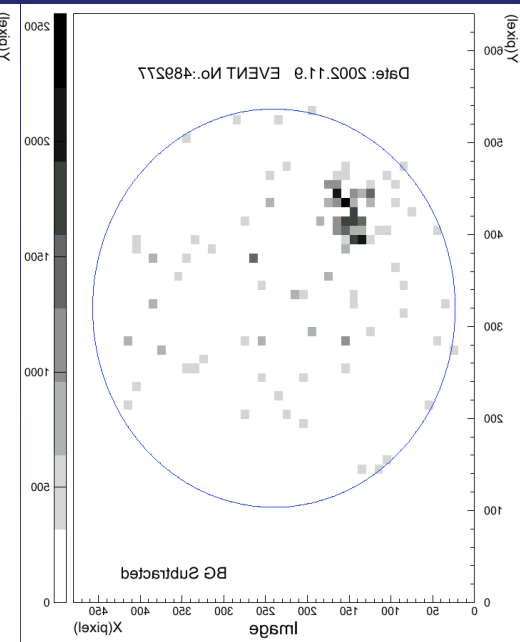
High Reflectivity, Small Spot Size



Measurement of Alpha



Gamma like

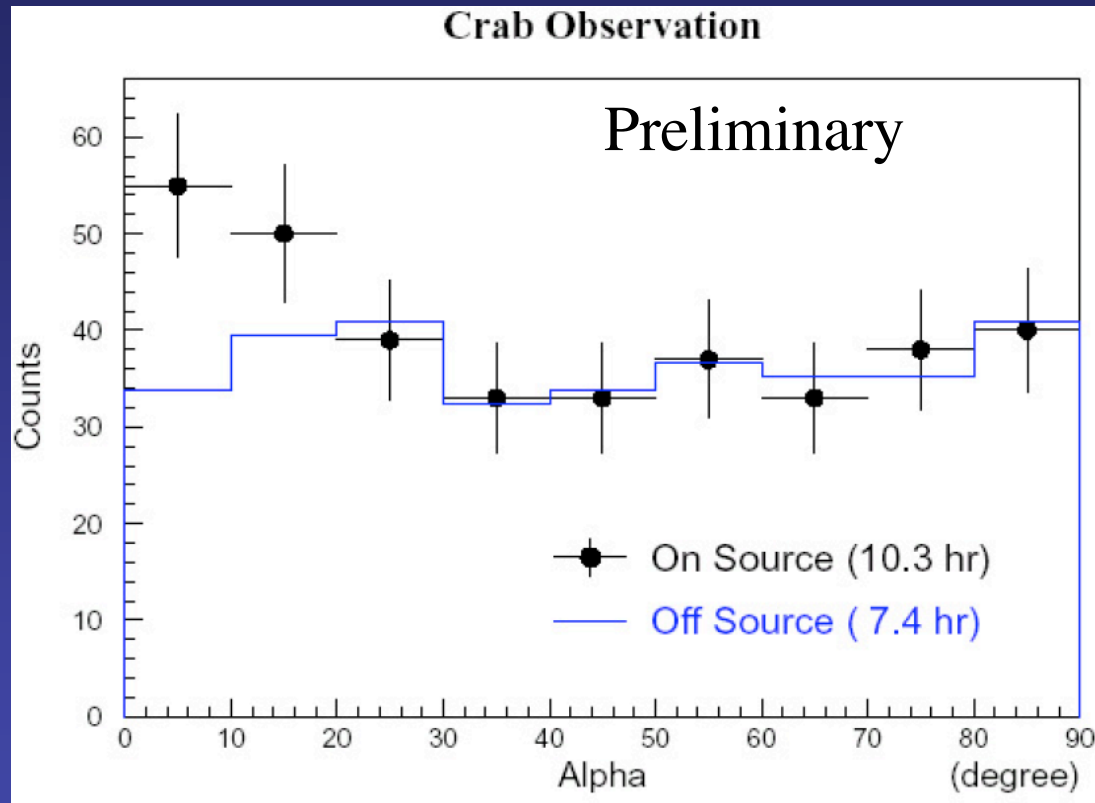


Proton like

Real Events



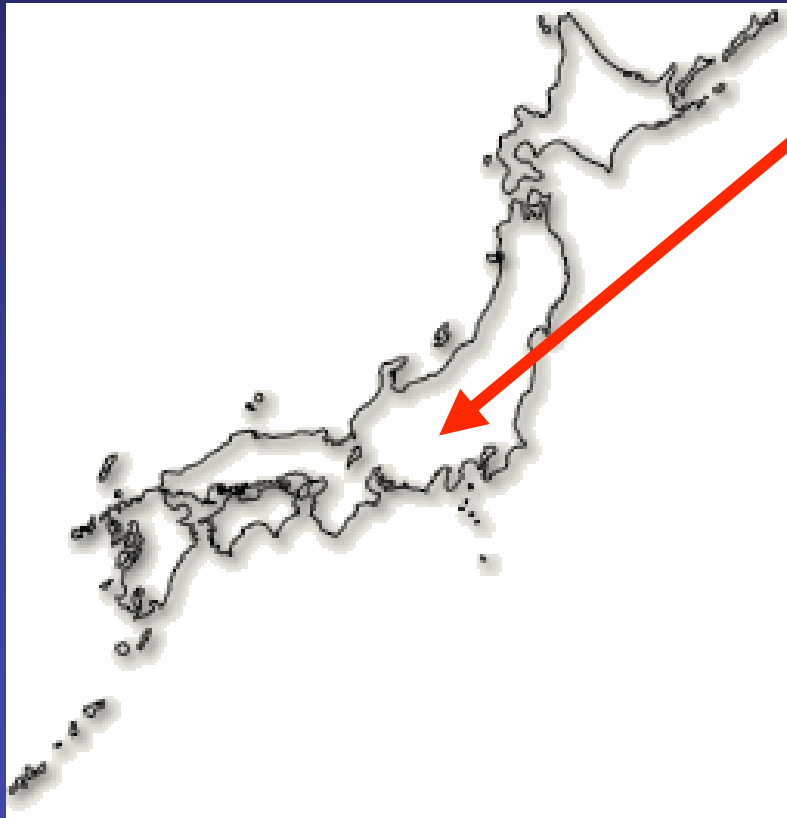
Results



Observed Crab Nebula for 10.3 hr
Not Enough Observation Time...



Bad Condition in Akeno



Akeno Observatory(ICRR)

- Cloudy
- Rainy
- Foggy
- Bright Sky

Moving to Haleakala

