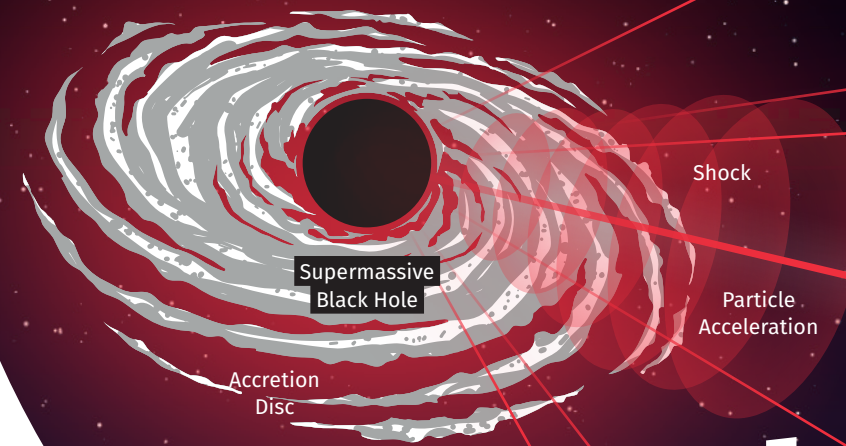
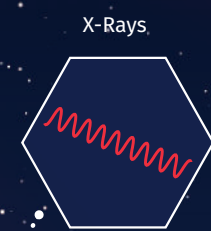


# from emission to discovery

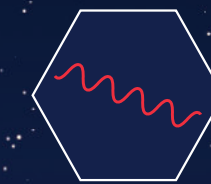
cherenkov telescope array observatory



Emission

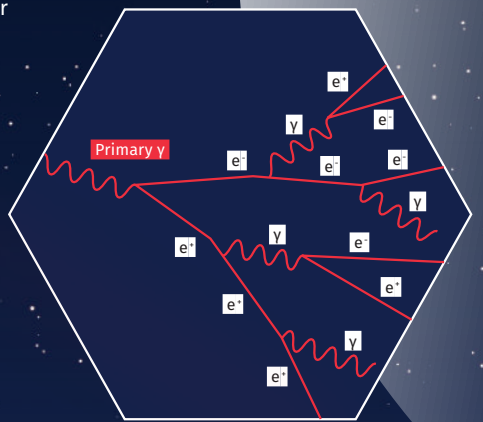


X-Rays



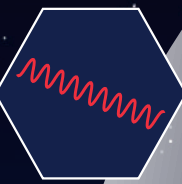
Radio Waves

1 Billion Years Later



Gamma Ray Interacts with the Atmosphere

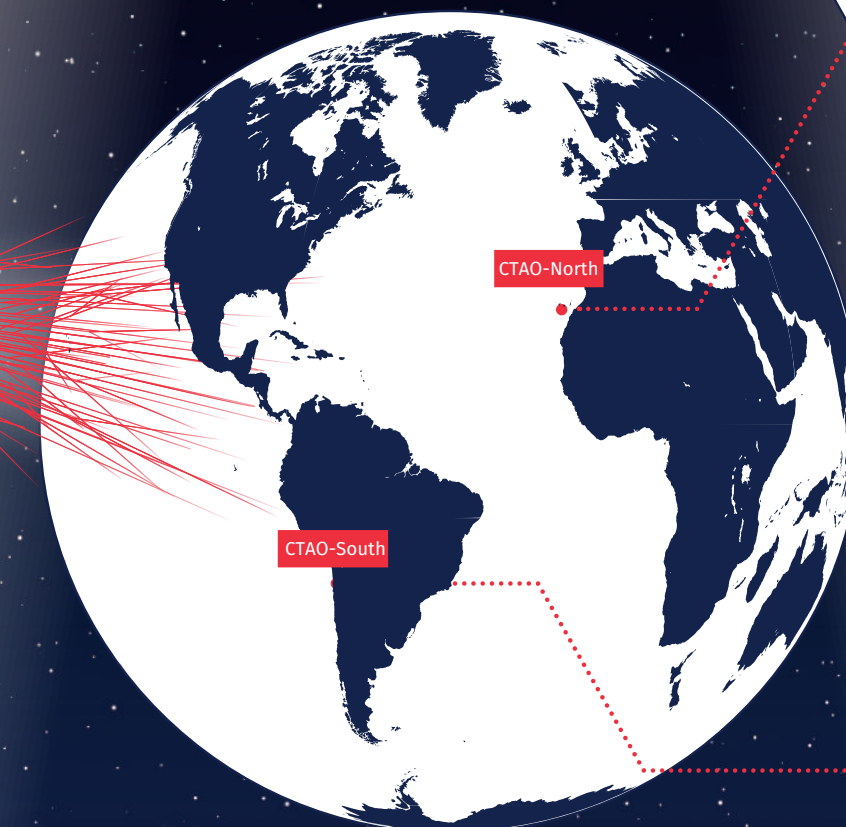
High-Energy Gamma Ray



Air Shower

Cherenkov Effect

Earth's Atmosphere



CTAO-North

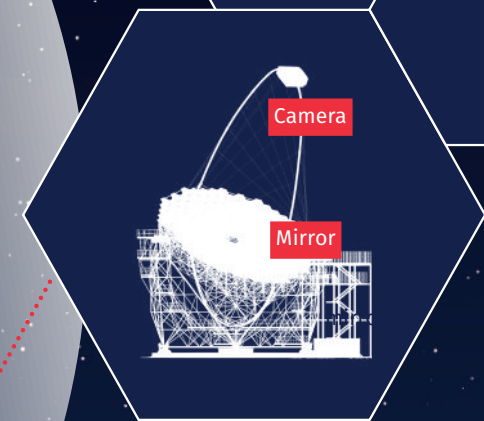
CTAO-South

Detection

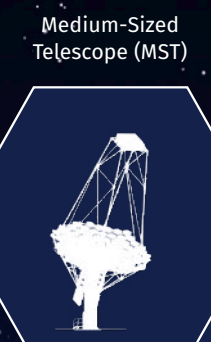


La Palma

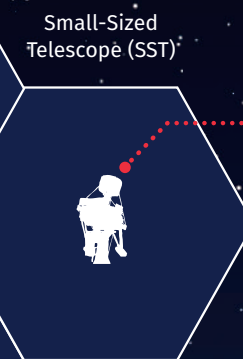
(LST, MST)



Large-Sized Telescope (LST)



Medium-Sized Telescope (MST)

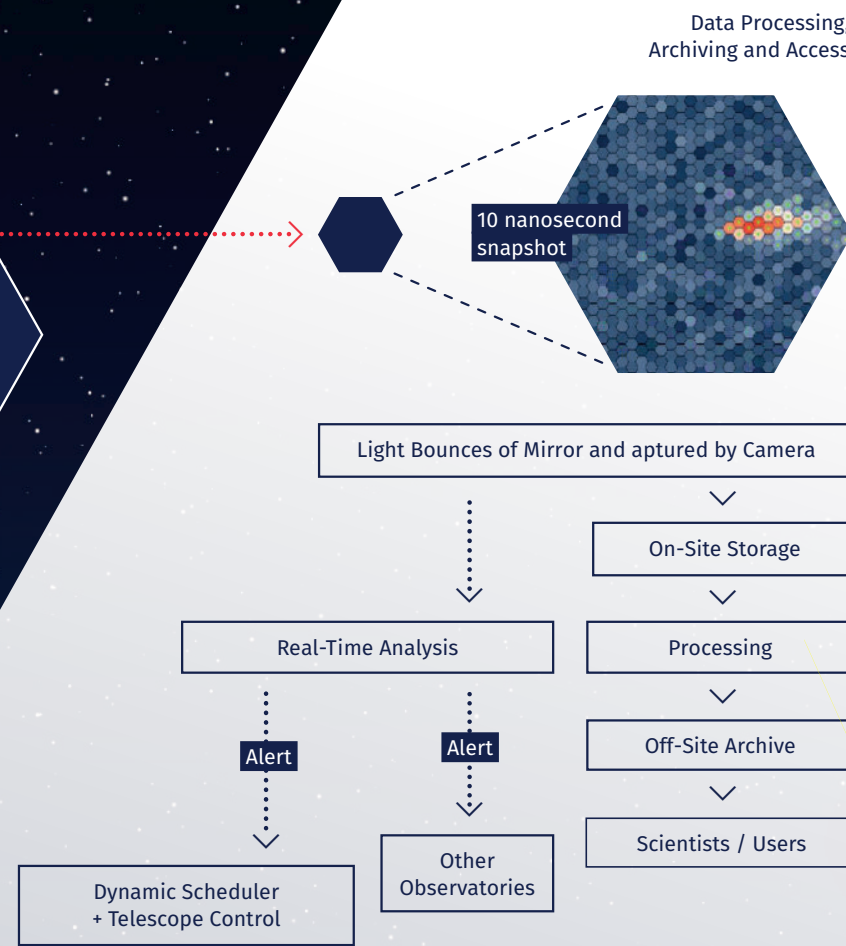


Small-Sized Telescope (SST)

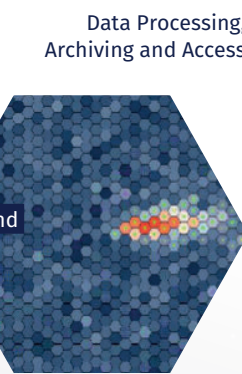
Chile

(MST, SST)

Data

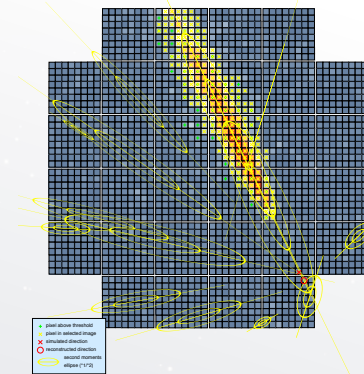
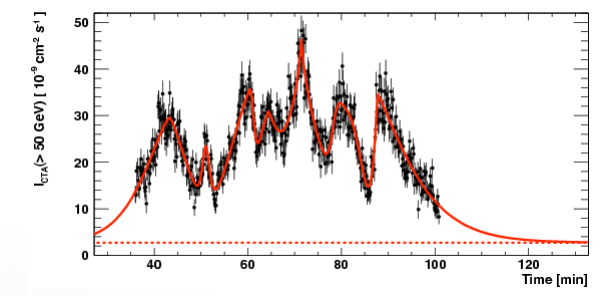


10 nanosecond snapshot



Data Processing, Archiving and Access

Discovery



Shower Reconstruction