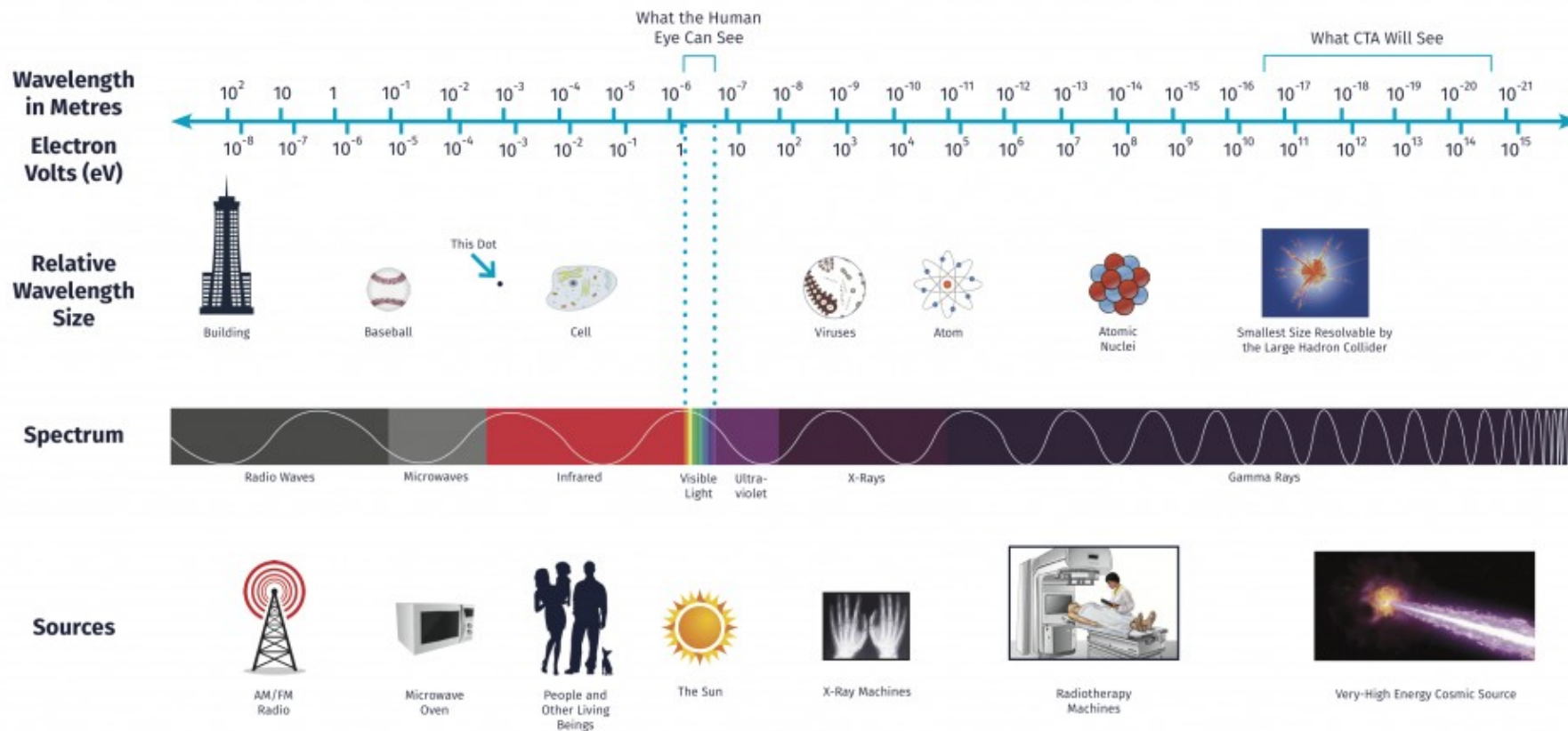


GRAPPA MasterClass



cherenkov
telescope
array

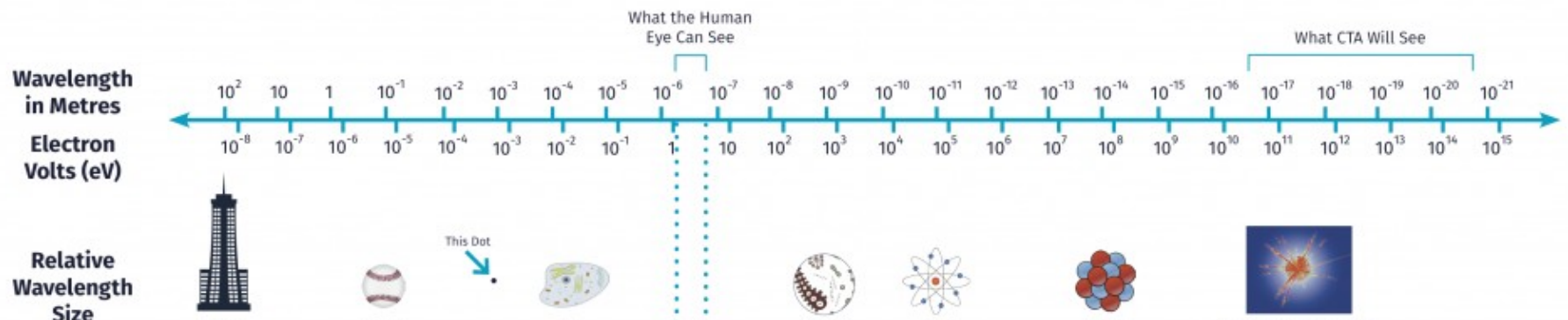
The Electromagnetic Spectrum





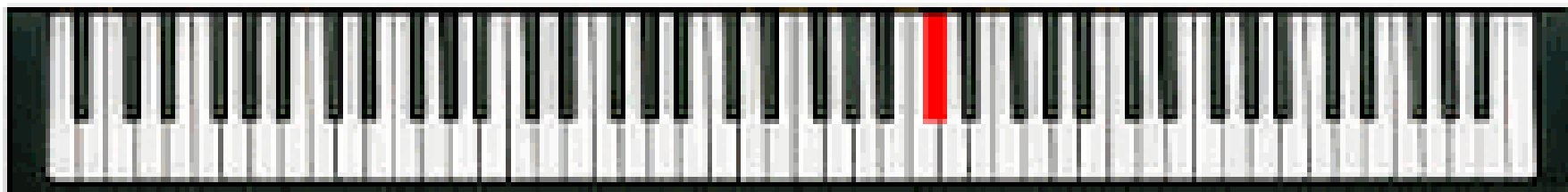
cherenkov
telescope
array

The Electromagnetic Spectrum



optical

radio micro wave infrared ultra violet X-ray gamma-ray

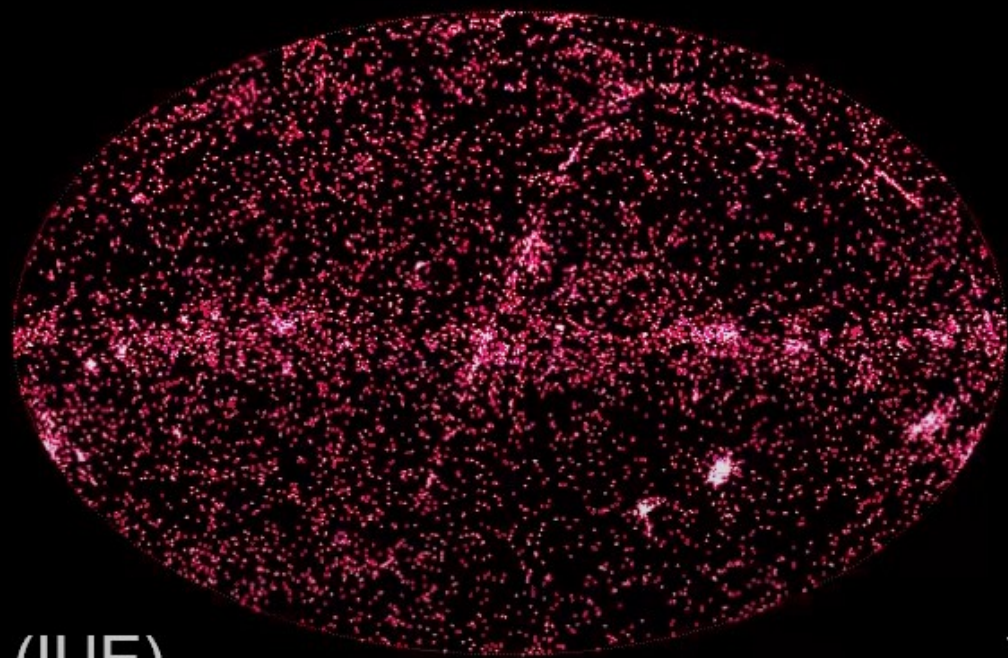




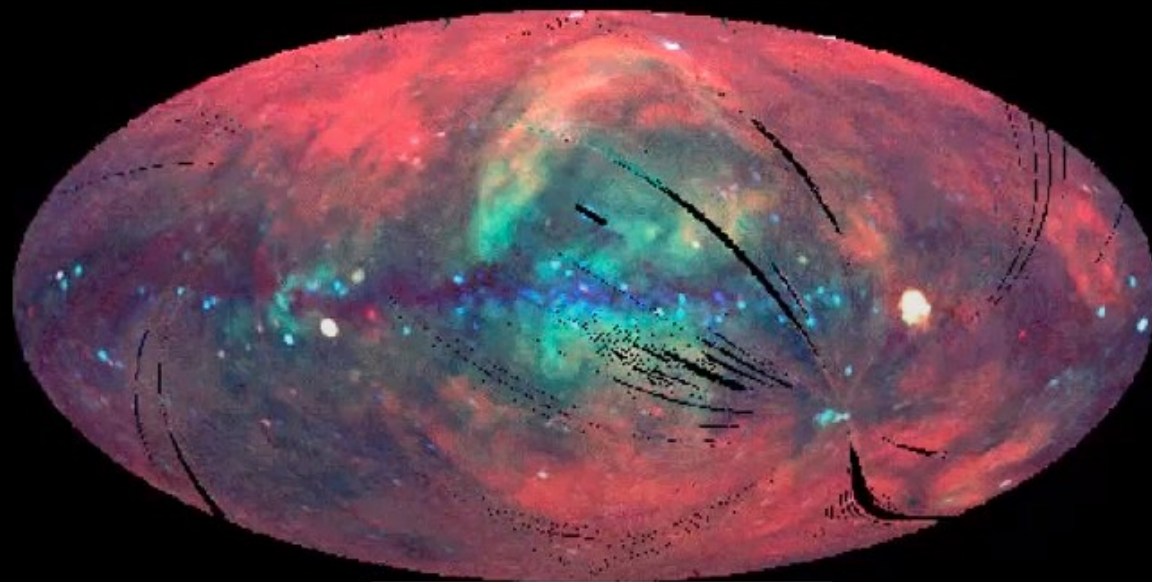
IR (COBE)



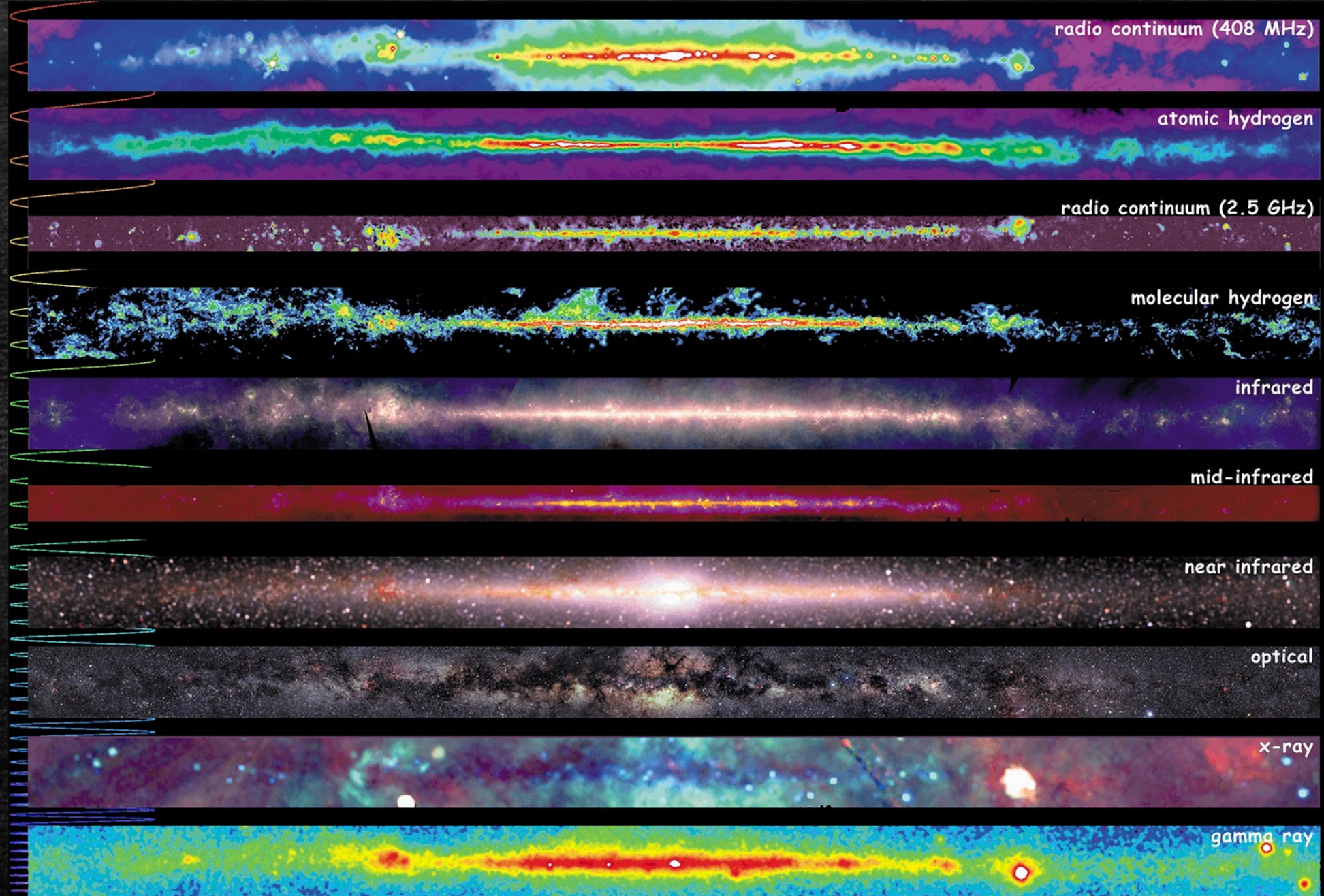
Optical



UV (IUE)

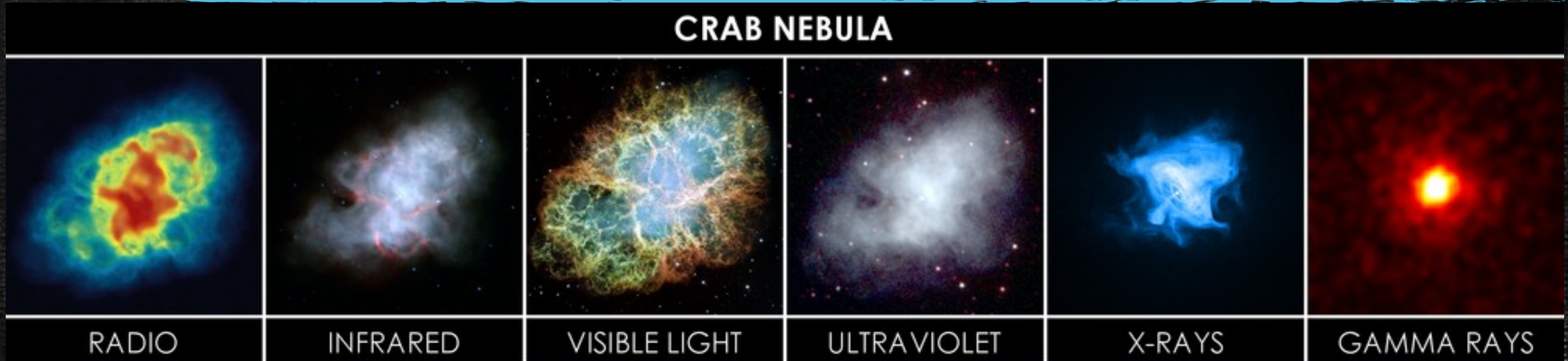


X-ray (ROSAT)



The Multiwavelength Milky Way

El pulsar del Cangrejo



The crab nebula in radio, infrared, visible, ultraviolet, x-ray and gamma-ray wavelengths.

Sources: Radio: NRAO/AUI and M. Bietenholz, J.M. Uson, T.J. Cornwell; Infrared: NASA/JPL-Caltech/R. Gehrz (University of Minnesota); Visible: NASA, ESA, J. Hester and A.Loll (Arizona State University); Ultraviolet: NASA/Swift/E. Hoversten, PSU, X-ray: NASA/CXC/SAO/F. Seward et al.; Gamma: NASA/DOE/Fermi LAT/R. Buehler

Video 0

Video 1

MAGIC



HESS



VERITAS



Estos necesitan estar
en lugares
Secos puesto que
la humedad dificulta
las observaciones

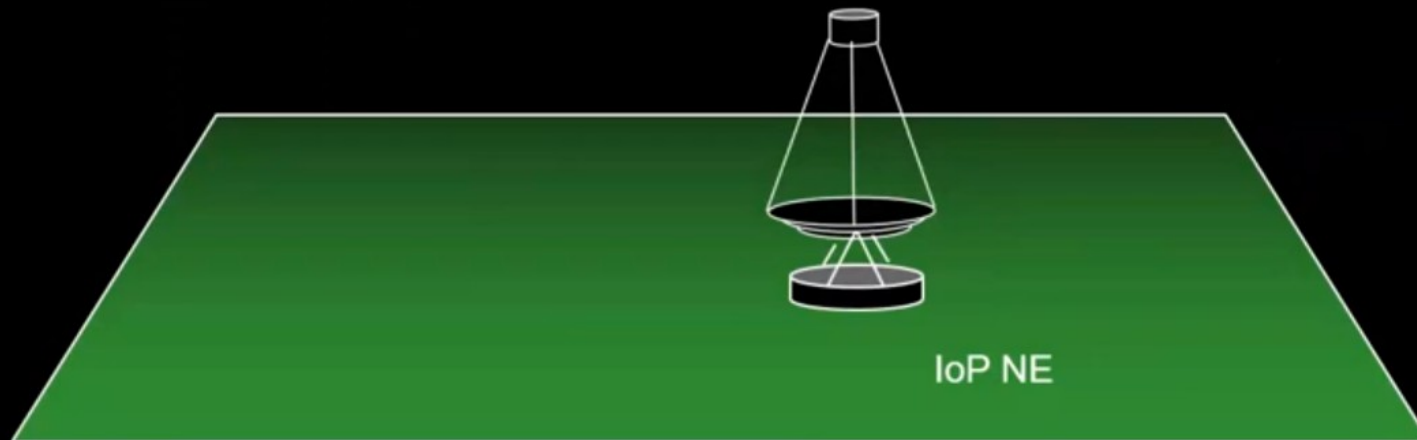
Video 2, 3, 4, 5, 6

Imaging

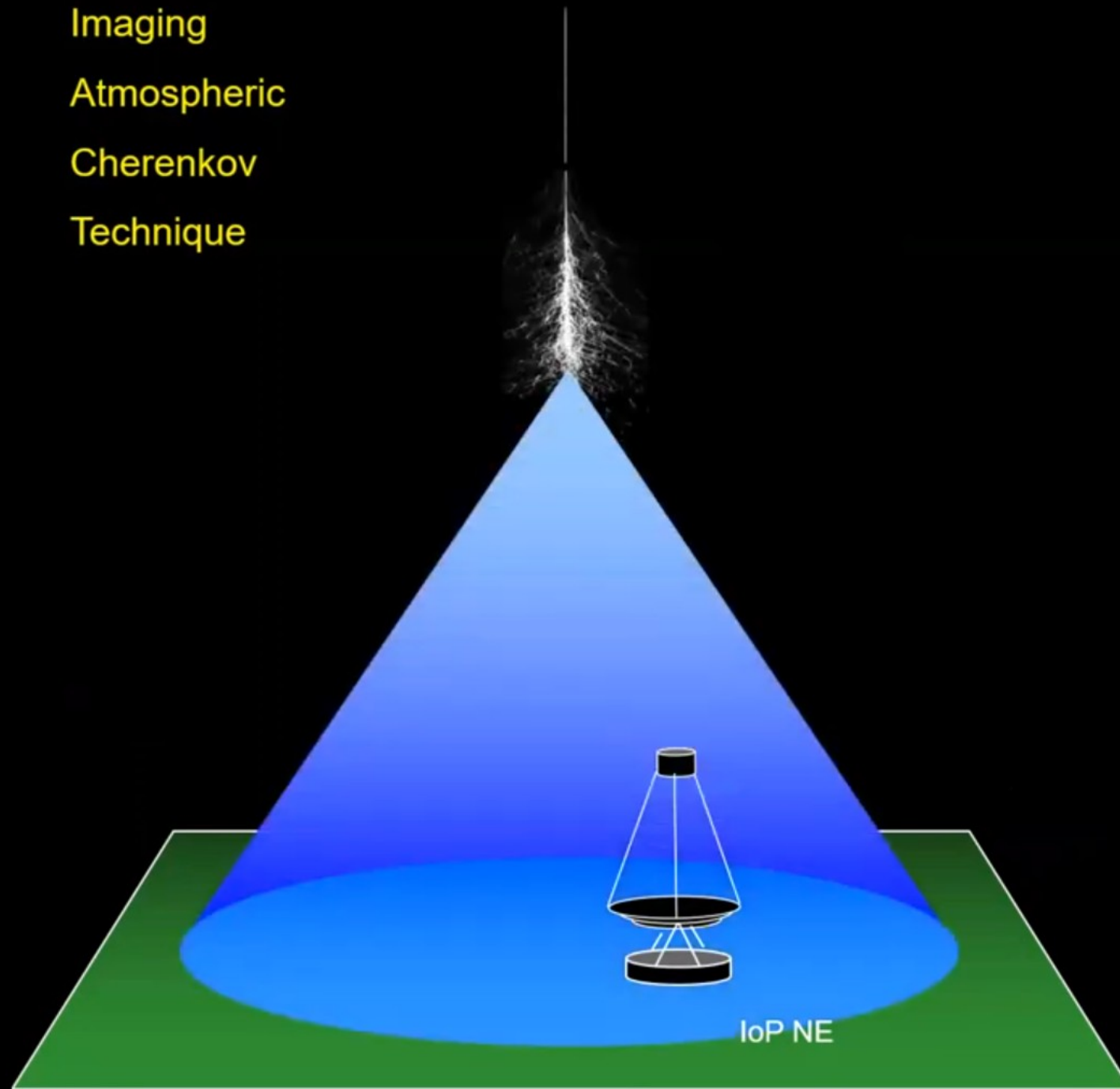
Atmospheric

Cherenkov

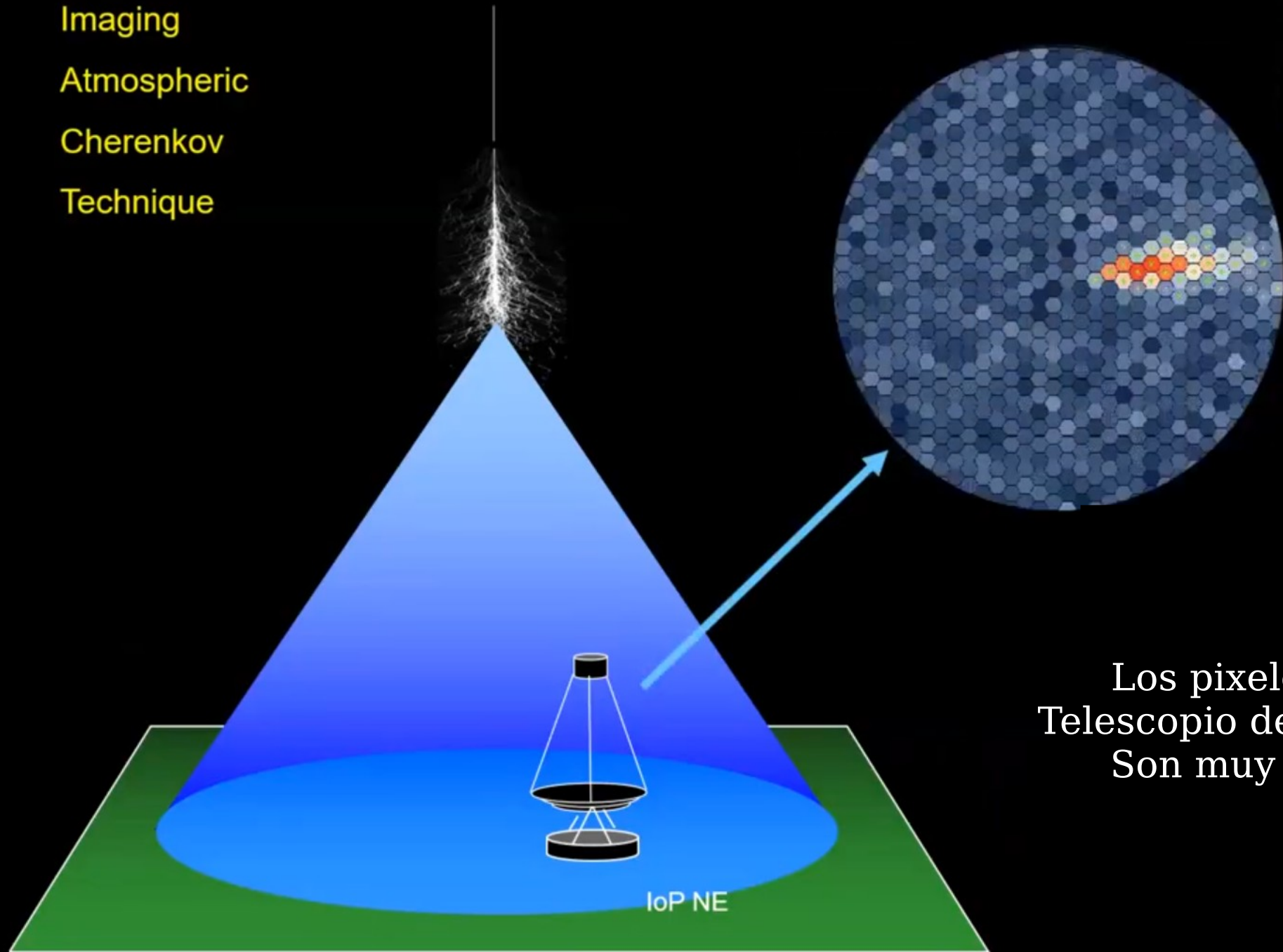
Technique



Imaging
Atmospheric
Cherenkov
Technique

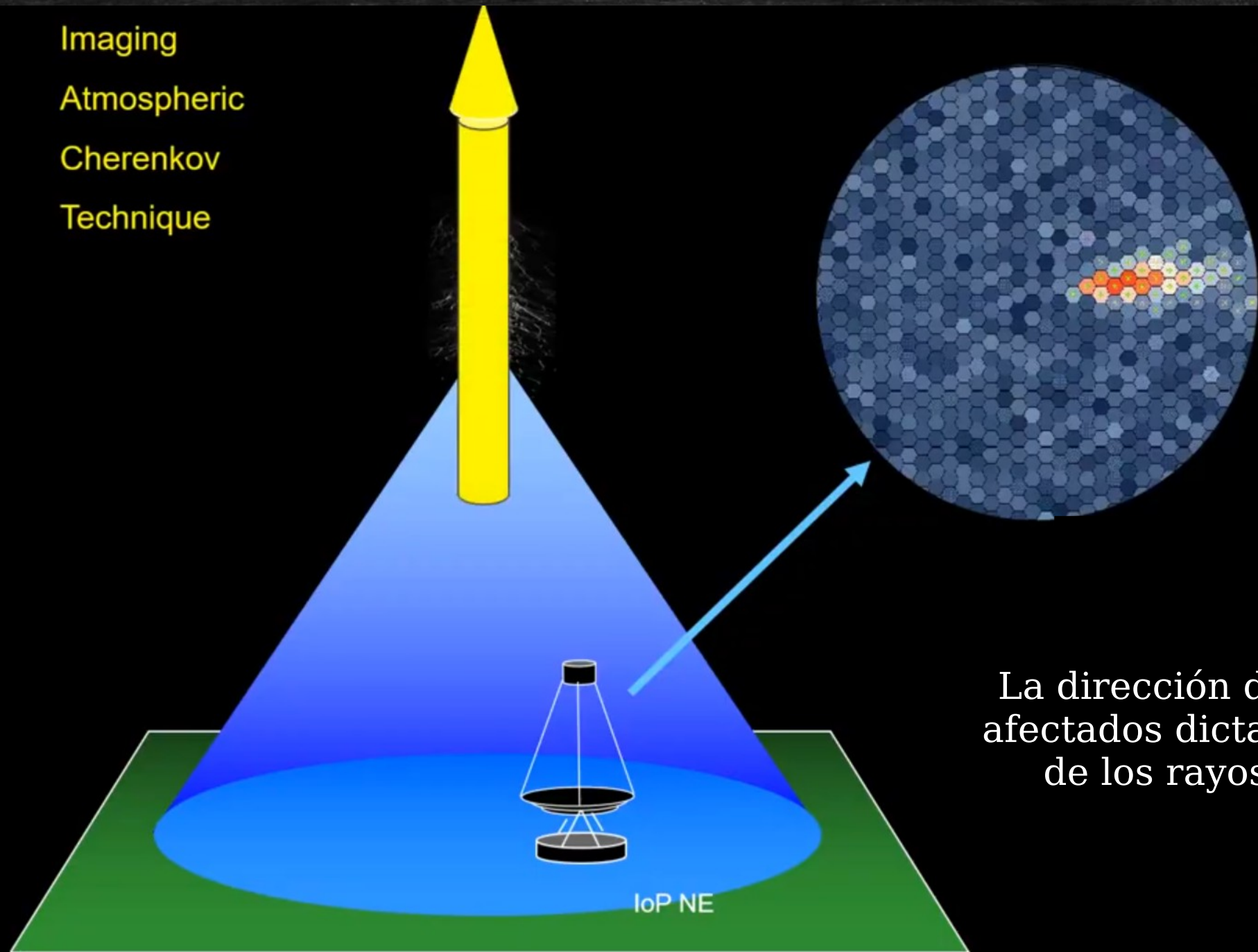


Imaging
Atmospheric
Cherenkov
Technique



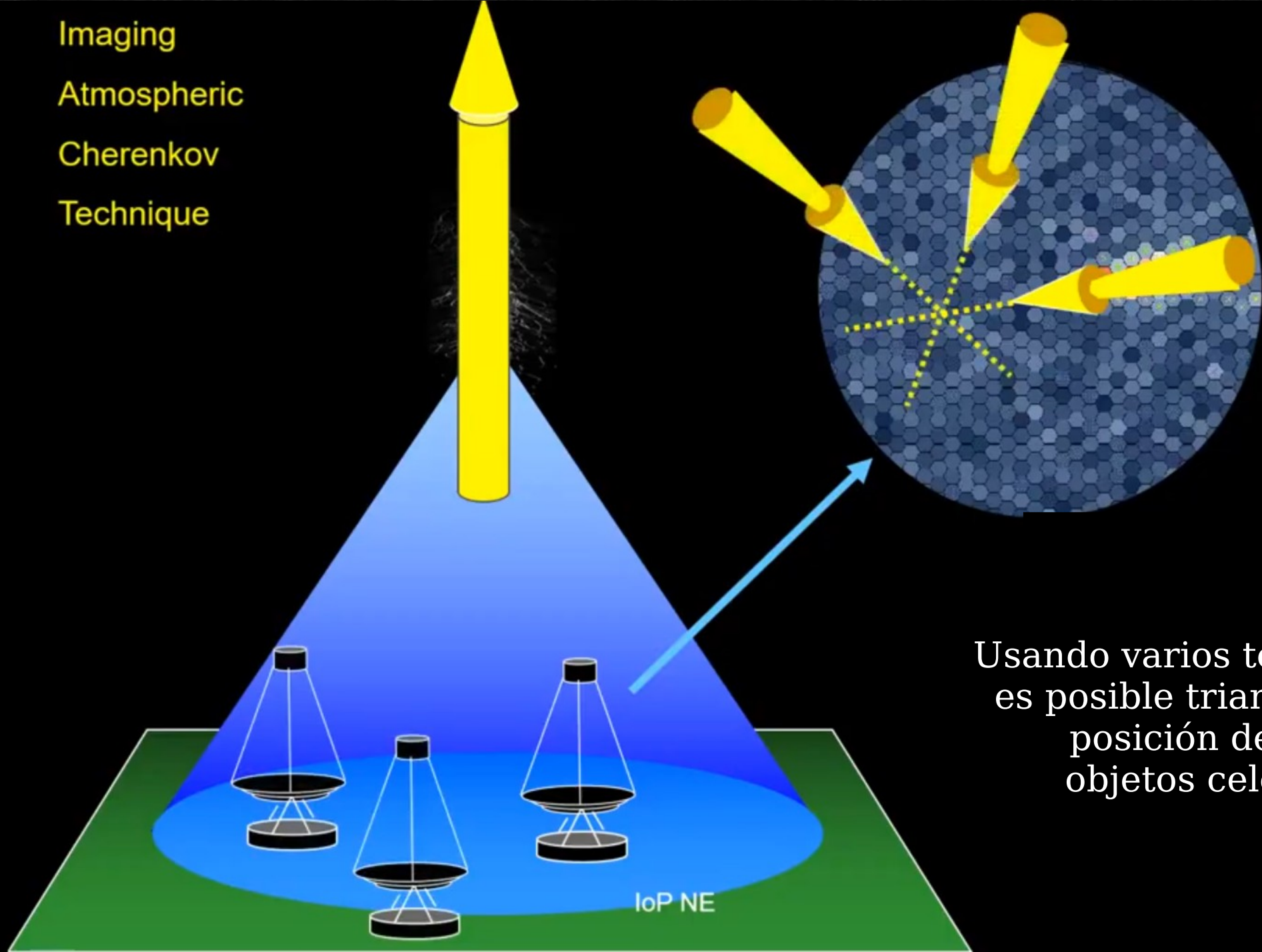
Los pixeles de un
Telescopio de Cherenkov
Son muy grandes

Imaging
Atmospheric
Cherenkov
Technique



La dirección de los pixeles
afectados dicta la dirección
de los rayos cósmicos

Imaging
Atmospheric
Cherenkov
Technique



Usando varios telescopios
es posible triangular la
posición de los
objetos celestes



Prototipo de telescopio pequeño de Cherenkov. Setenta de estos van a ser instalados en Chile!

Video 7



Video 9 (modelo de papel de CTA)



James Webb Telescope

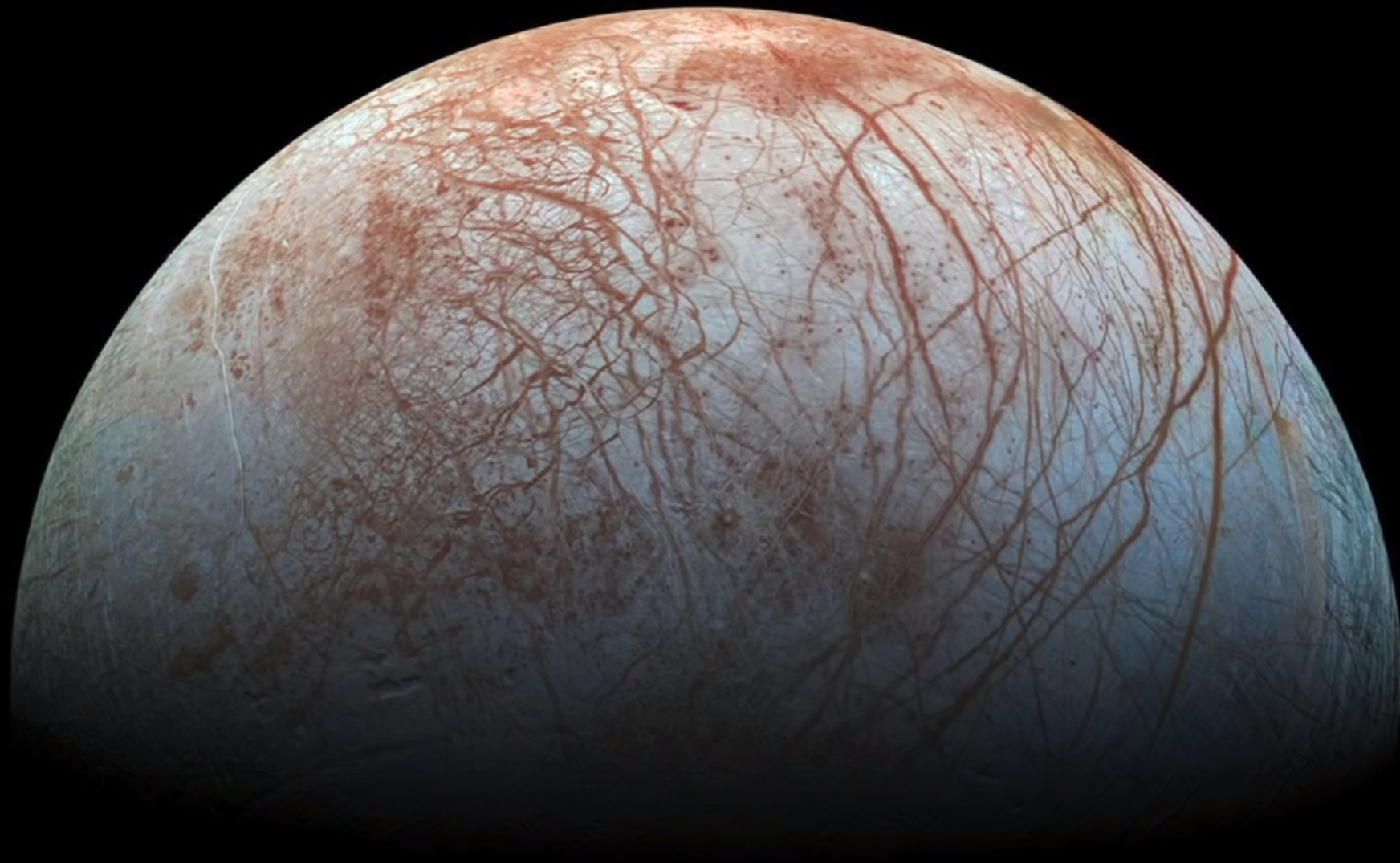
Video 8B, 9, 10, 11



La nebulosa del Aguila



La luna Europa de Jupiter



Video 12 (modelo de papel de James Webb)