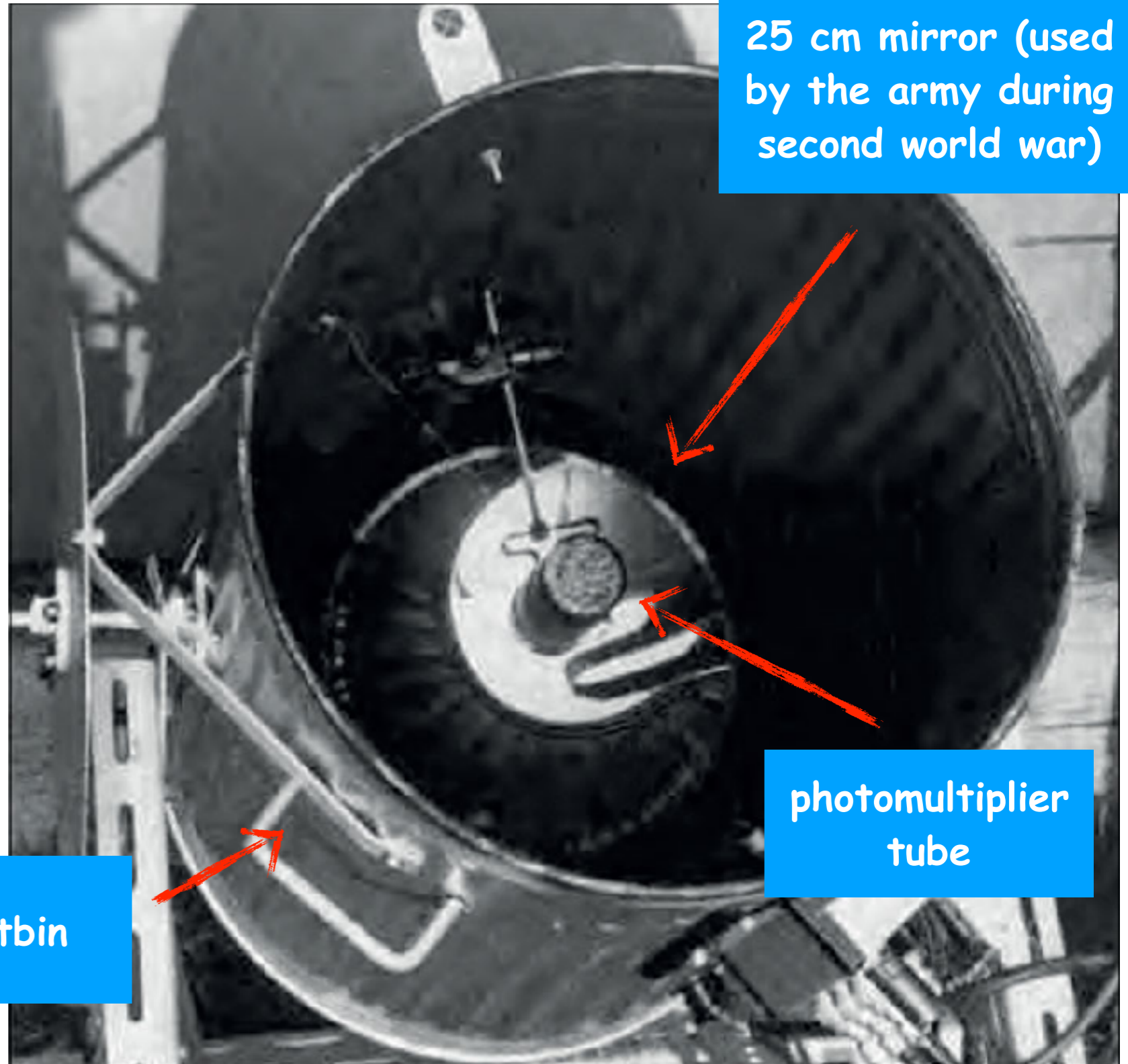


NPAC course on Astroparticles

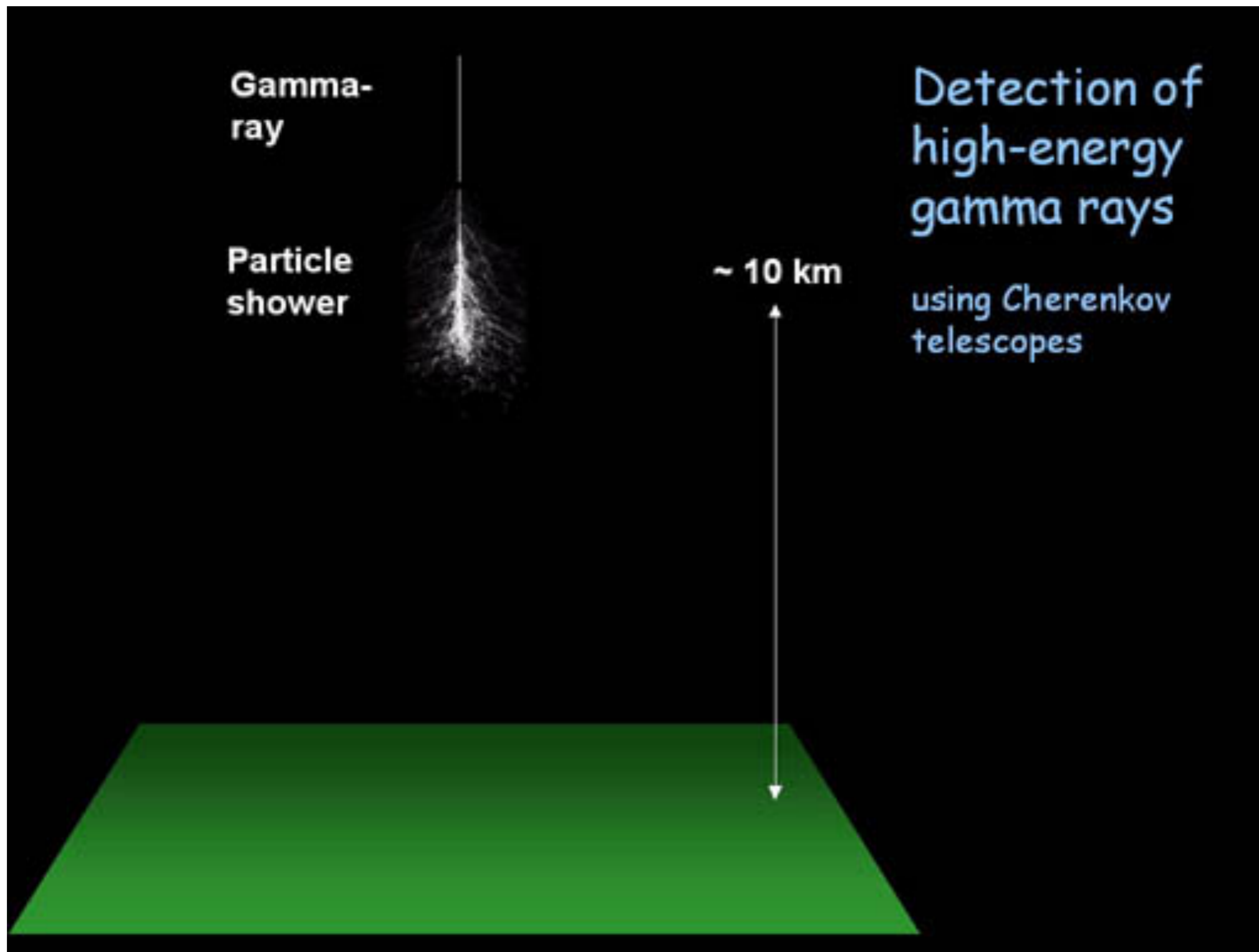
II bis - Gamma-ray observations with
Cherenkov Telescope Arrays

γ -ray astronomy was born in a dustbin

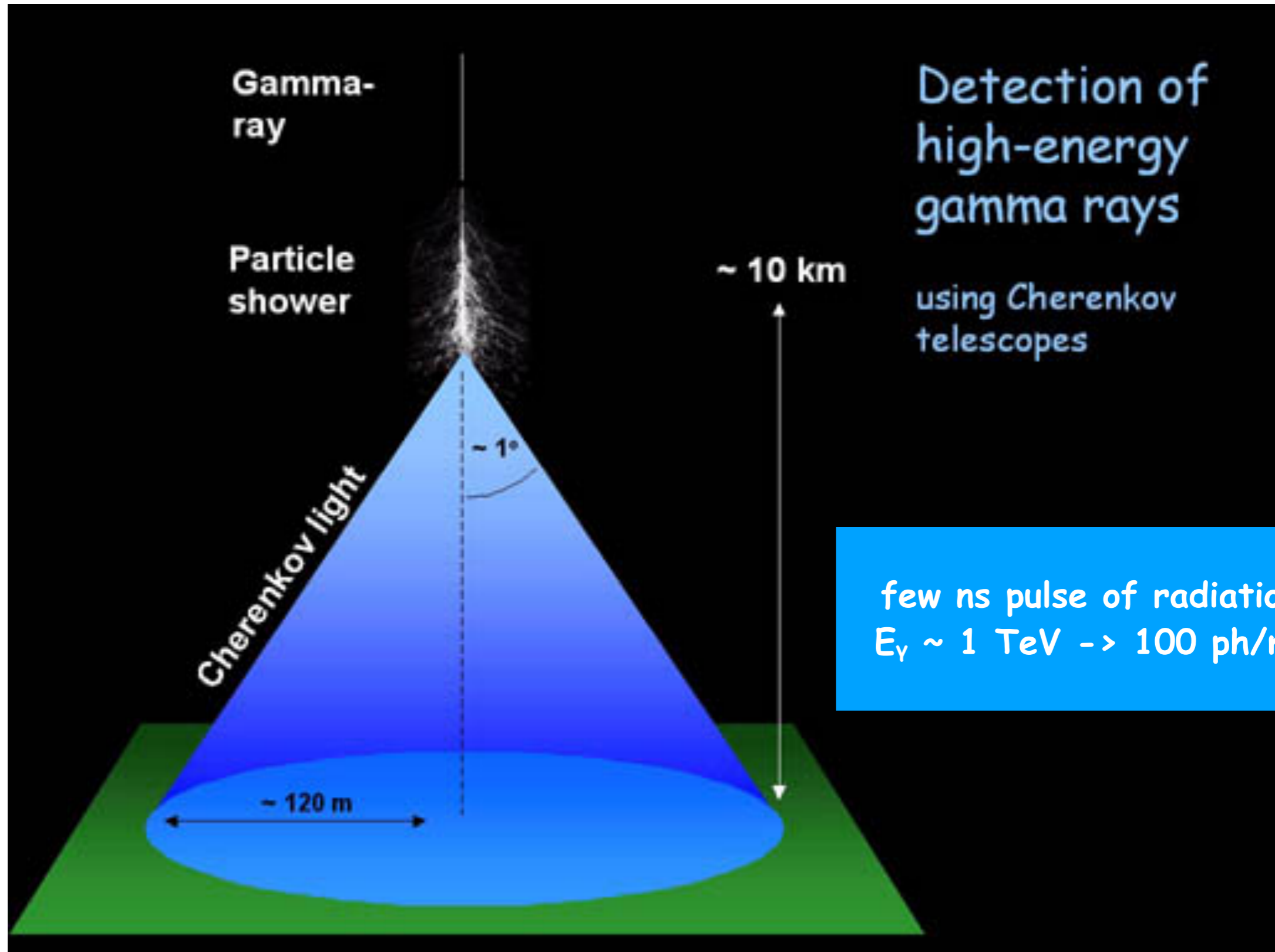
- Patrick Blackett (1947): Cherenkov radiation produced in the atmosphere due to cosmic ray interactions (the paper went largely unnoticed...)
- In 1952 Blackett mentioned this work talking (quite casually) to Jelley and Galbraith, at Harwell (UK)



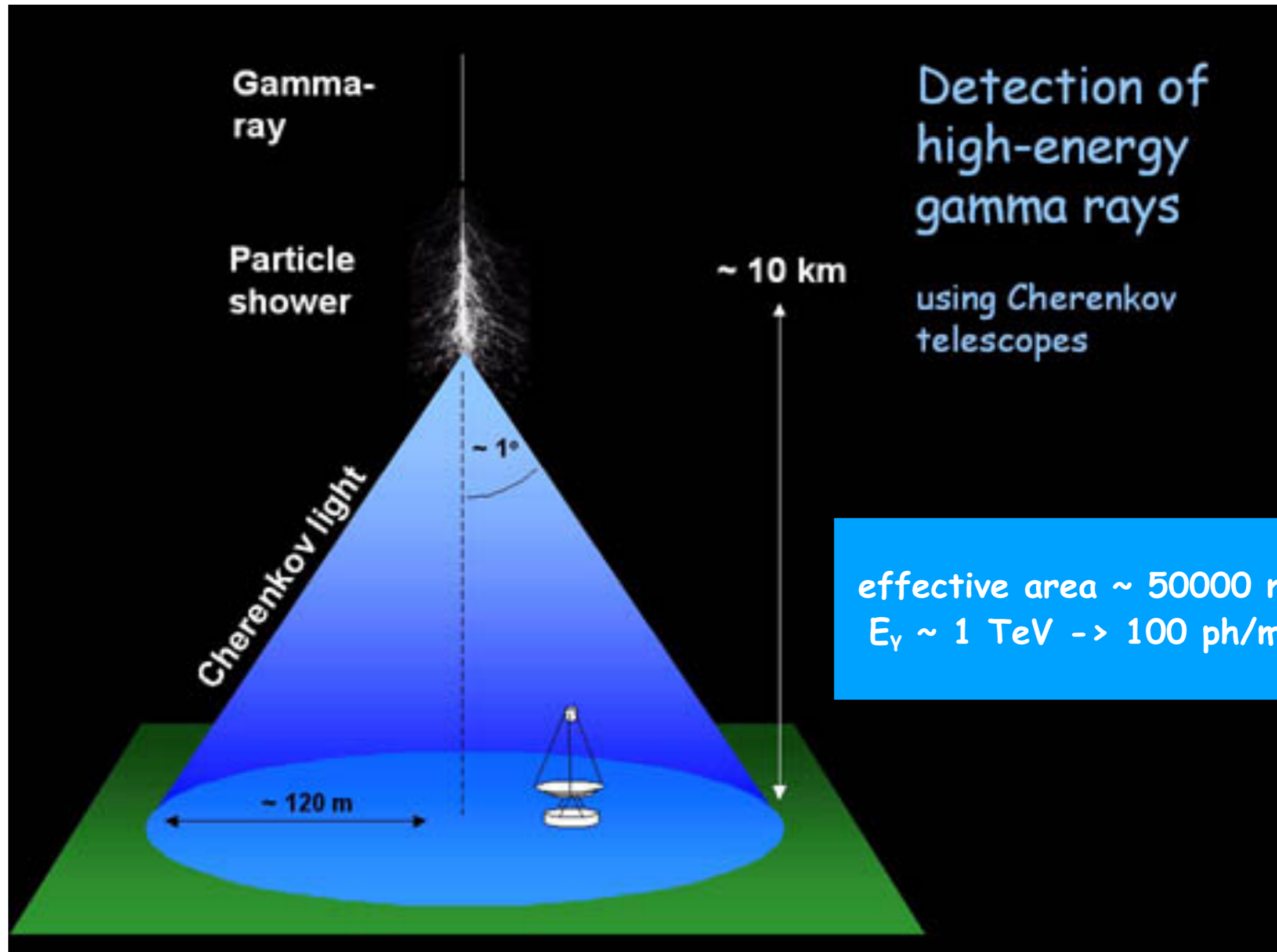
Cherenkov telescopes



Cherenkov telescopes

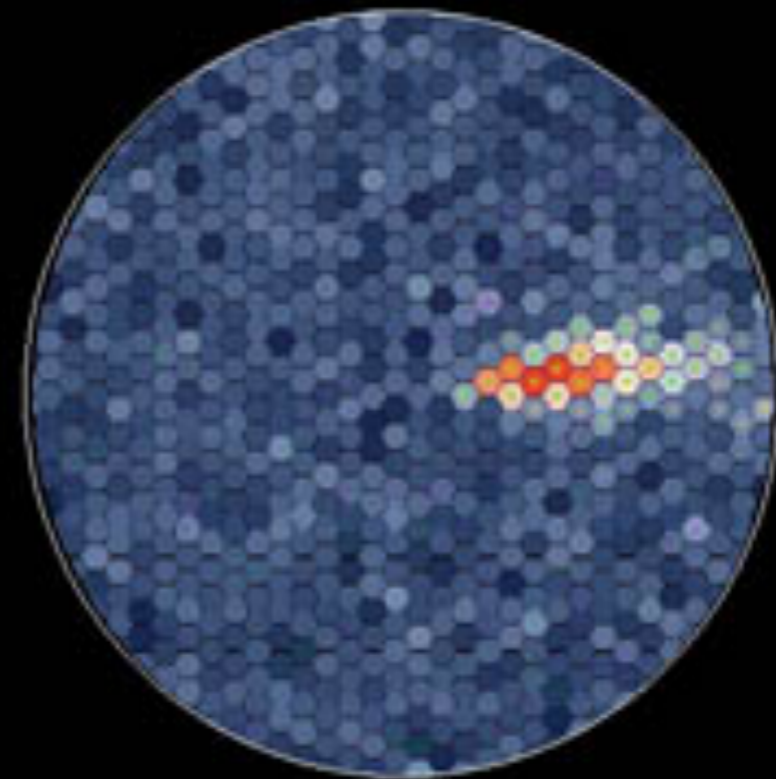


Cherenkov telescopes

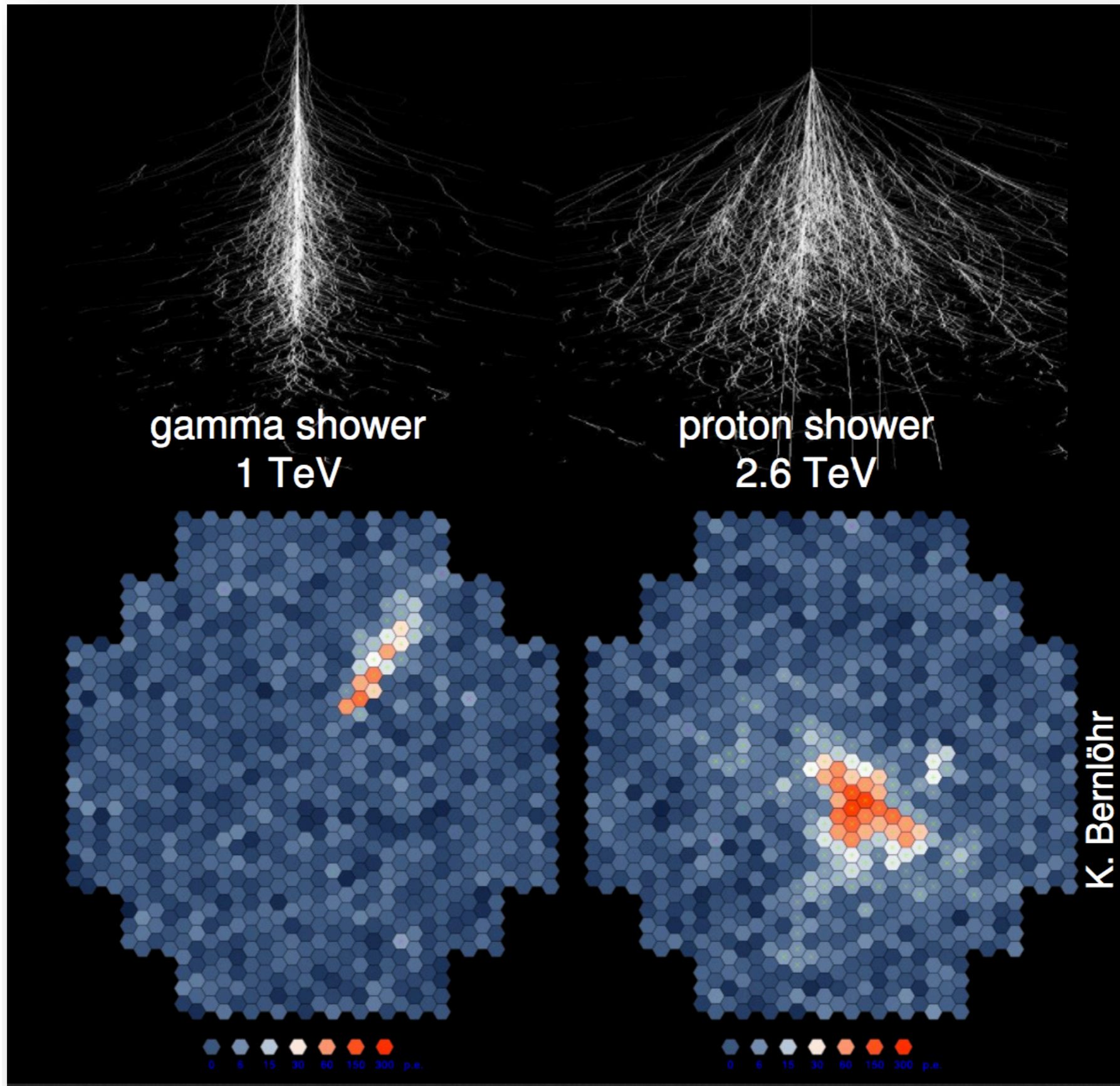


Cherenkov telescopes

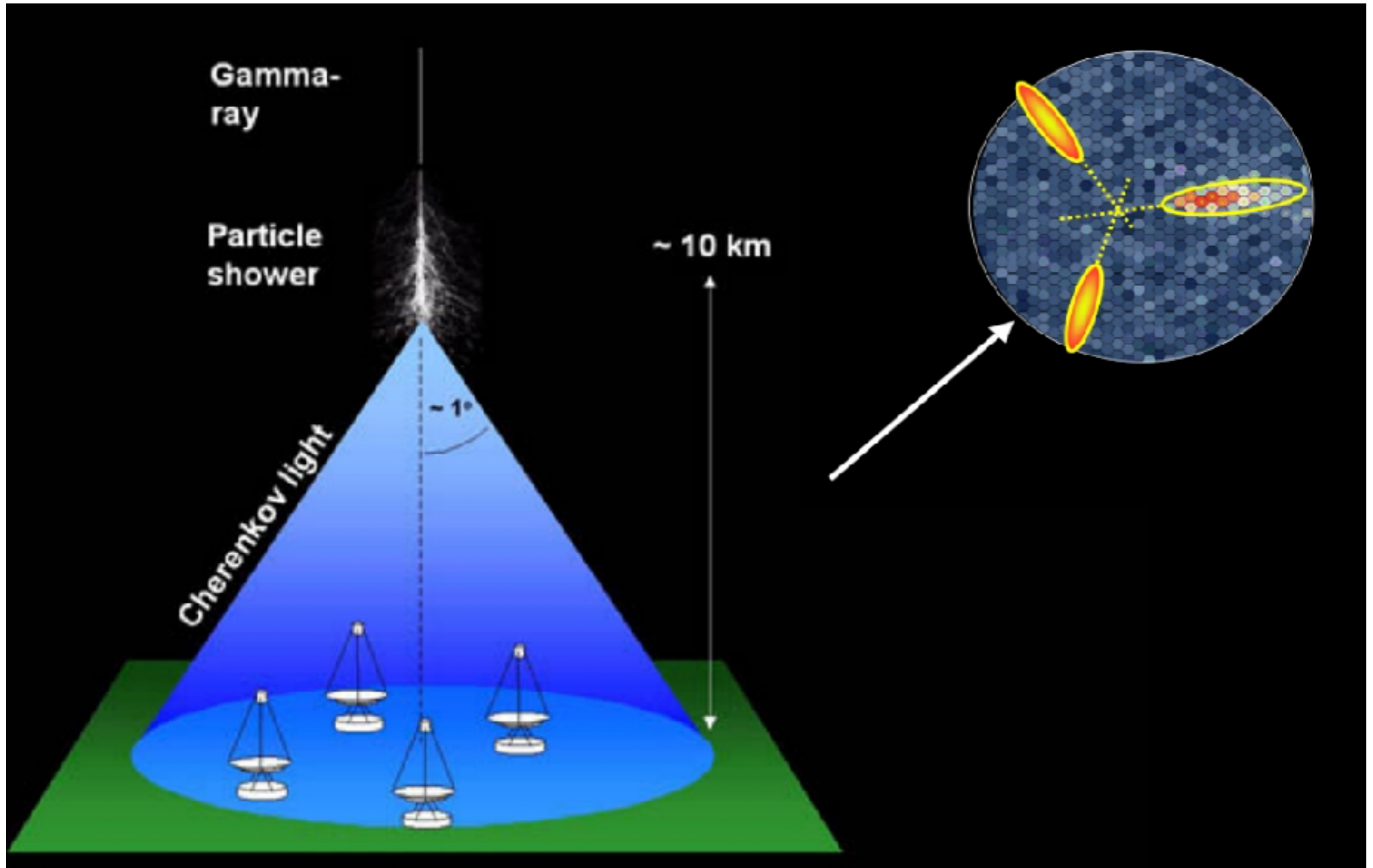
intensity \longleftrightarrow energy of gamma ray



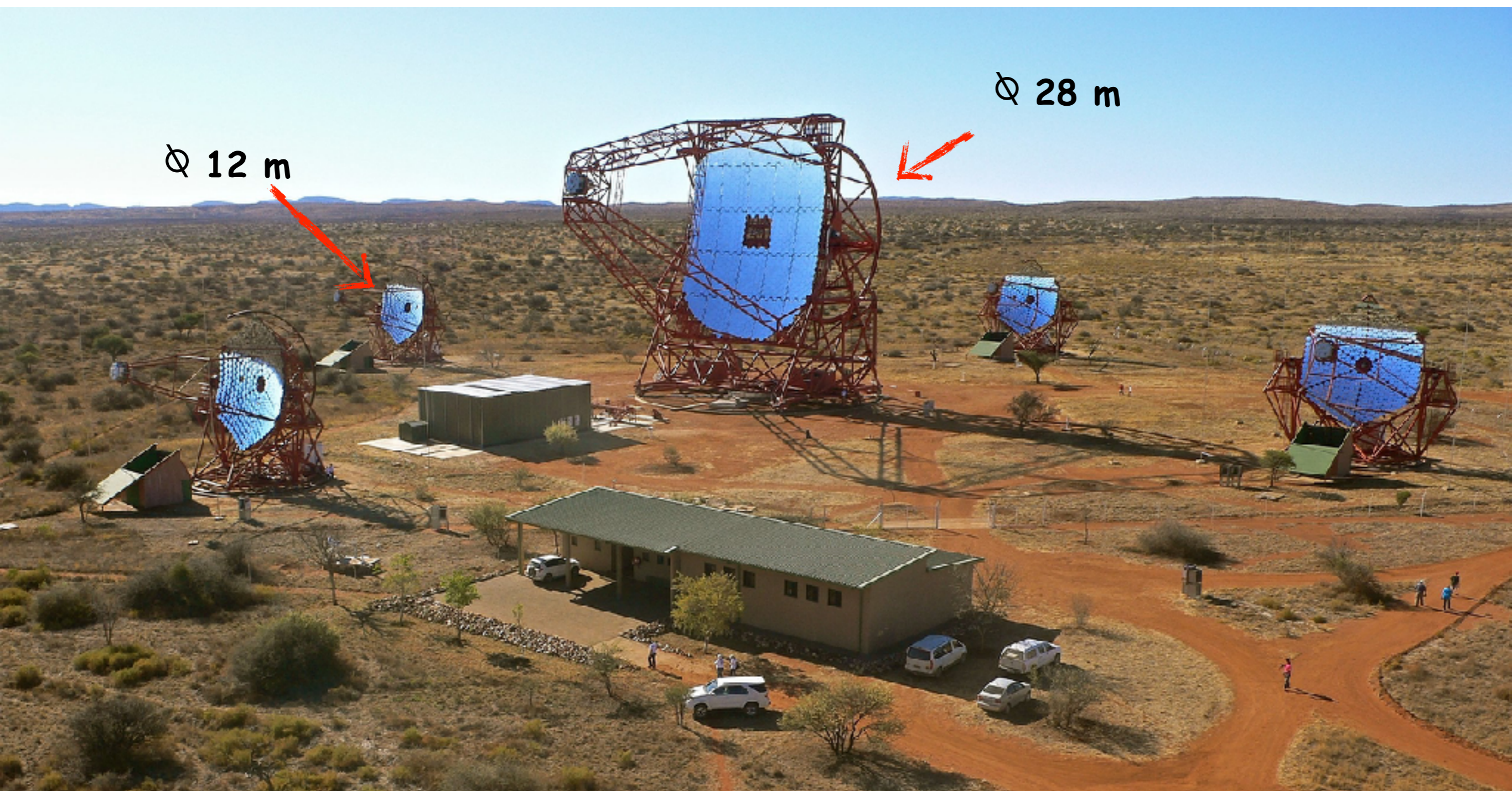
Cherenkov telescopes



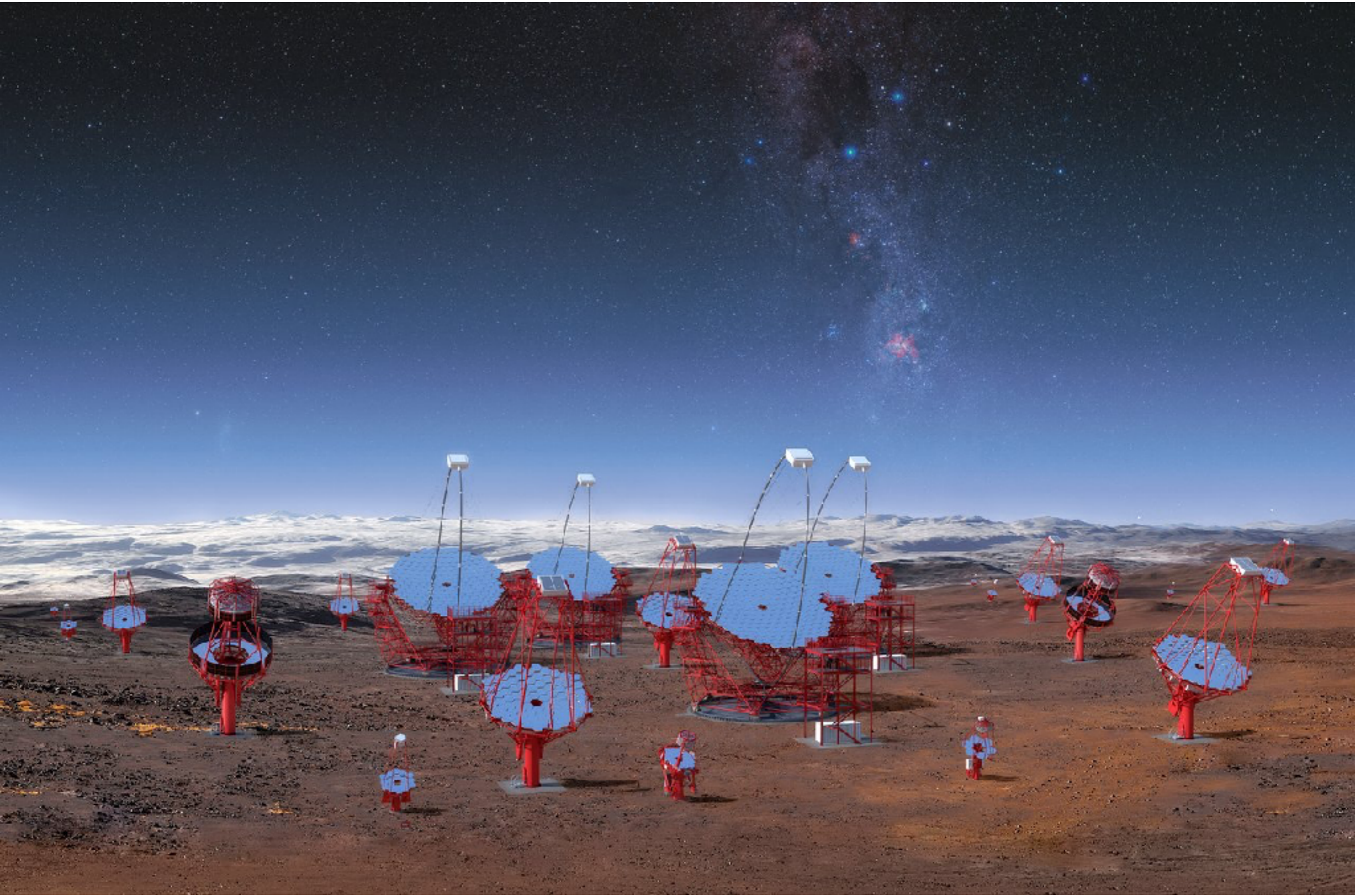
Cherenkov telescopes



HESS (@Namibia)

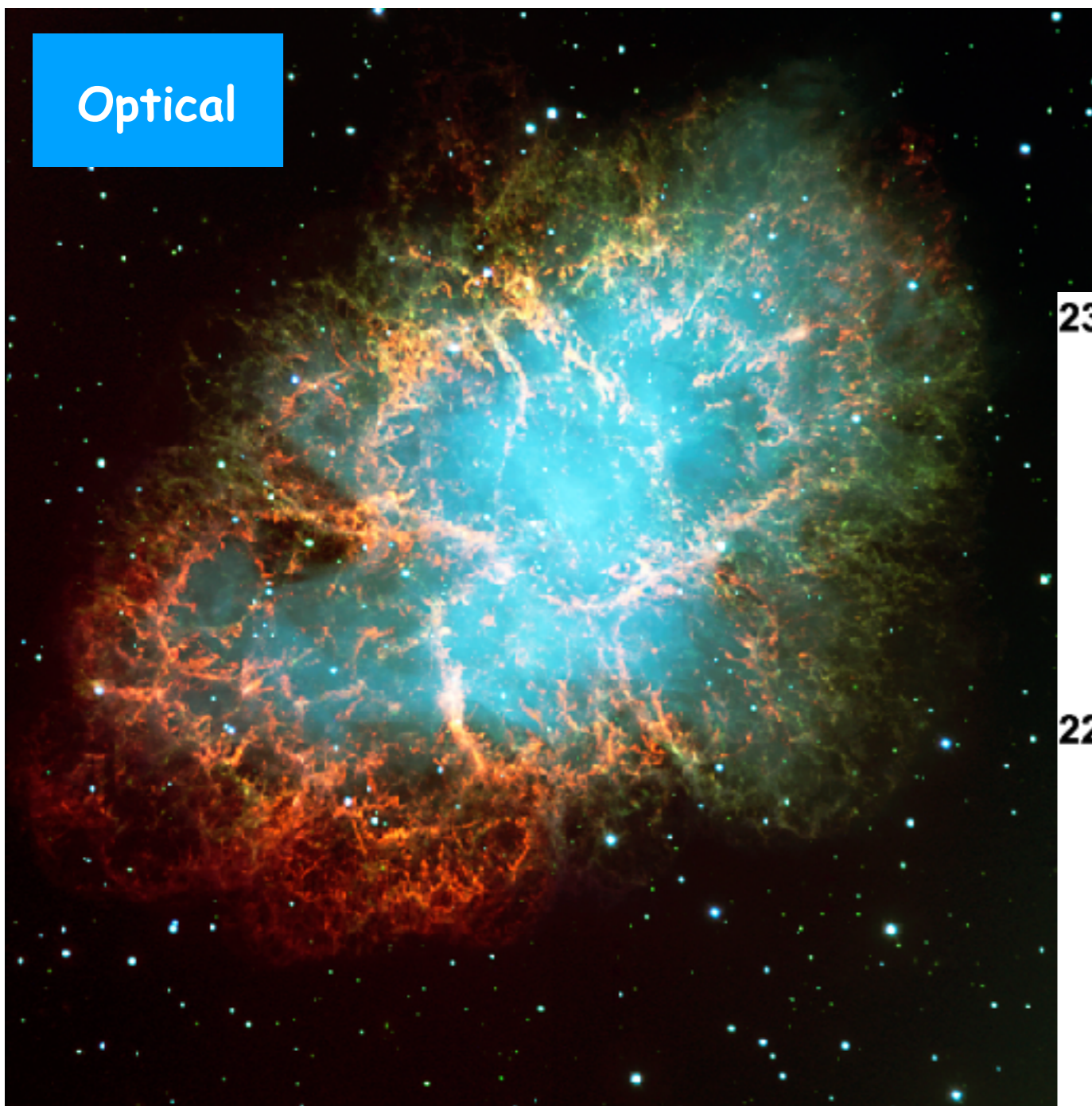


The future: CTA (@Chile+Canary Islands)



The Crab Nebula: the standard candle in TeV astronomy

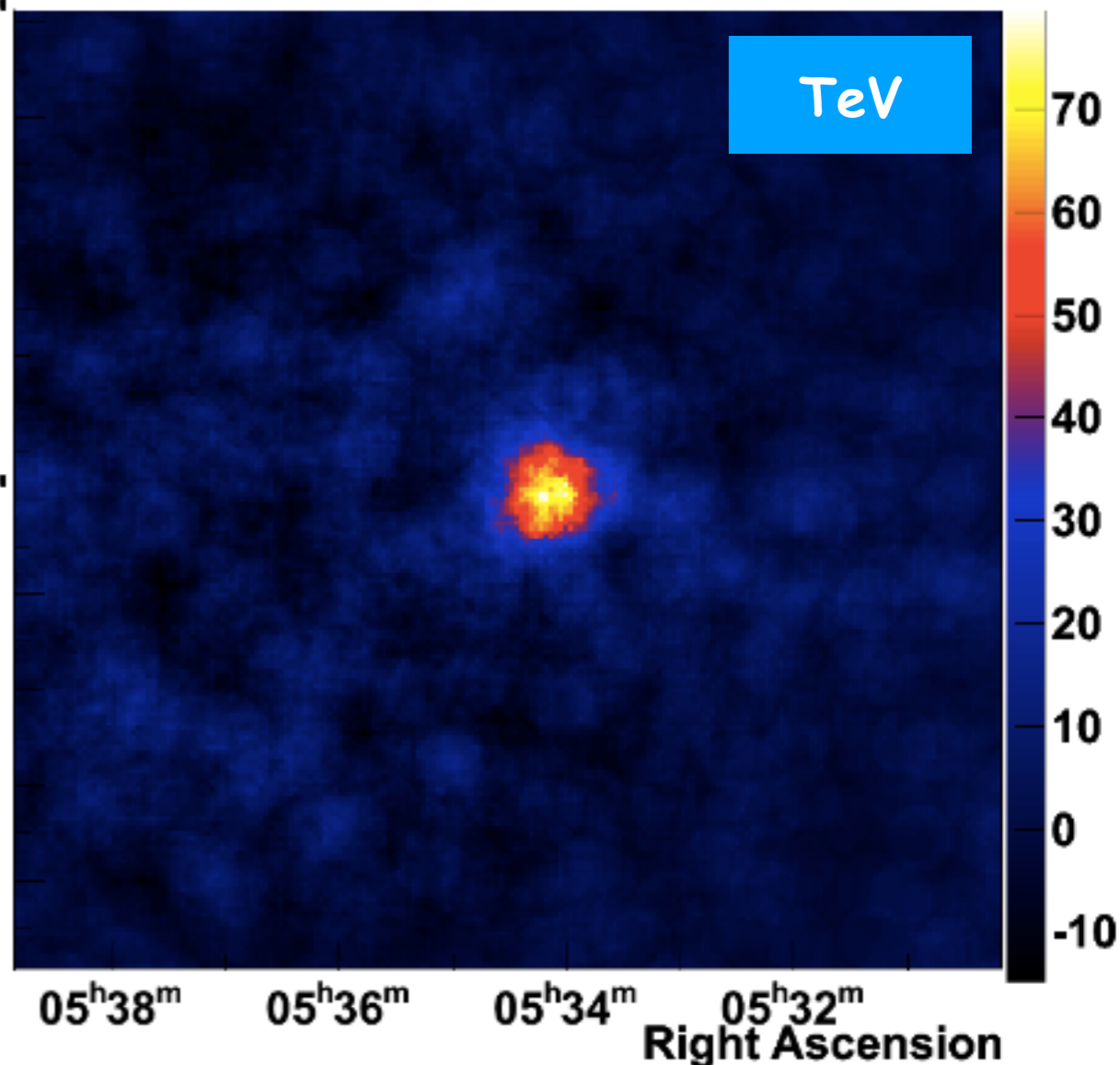
Optical



23°00'

22°00'

TeV



05^h38^m

05^h36^m

05^h34^m

05^h32^m

Right Ascension