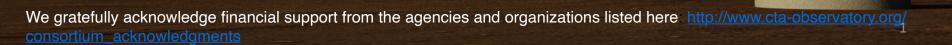


https://www.cta-observatory.org/consortium_authors/authors_2020_12.html

The CTA Observatory

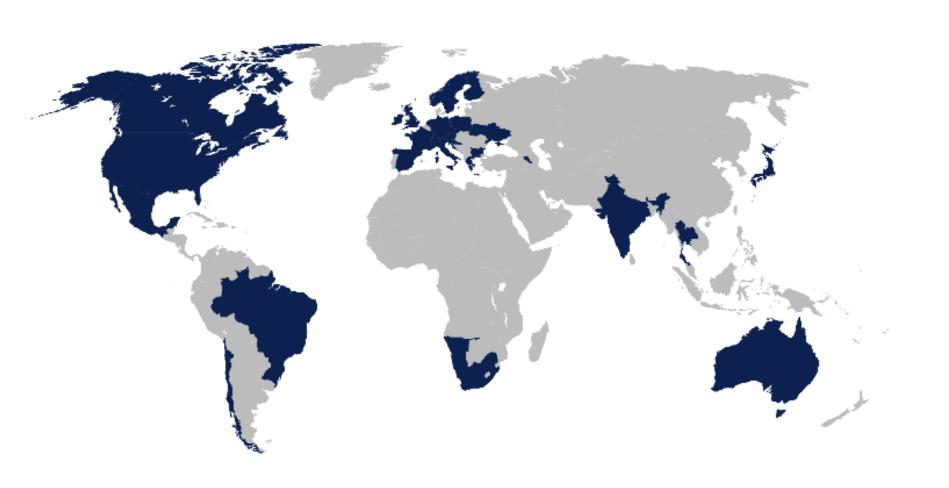
The CTA Consortium, represented by Emma de Oña Wilhelmi^{1,2}

¹ AvH Fellow, DESY-Zeuthen, Germany ² ICE (CSIC-IEEC), Spain



CTA Consortium





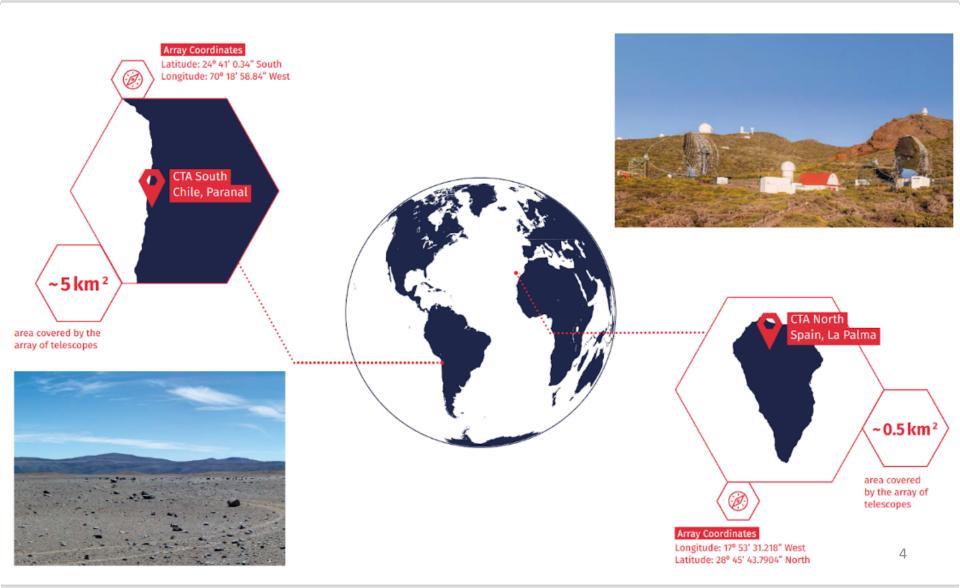
CTA Sites





Two Arrays: Two Eyes on the Sky





The Cherenkov Telescope Array



South: 99 telescopes spread out over ~5 km² (70 SSTs, 25 MSTs, 4 LSTs)



North: 19 telescopes spread out over ~1 km² (15 MSTs, 4 LSTs)



Observatory Operation



CTA Headquarters



- Located at the INFN campus in Bologna, Italy
- Administration of the CTA observatory

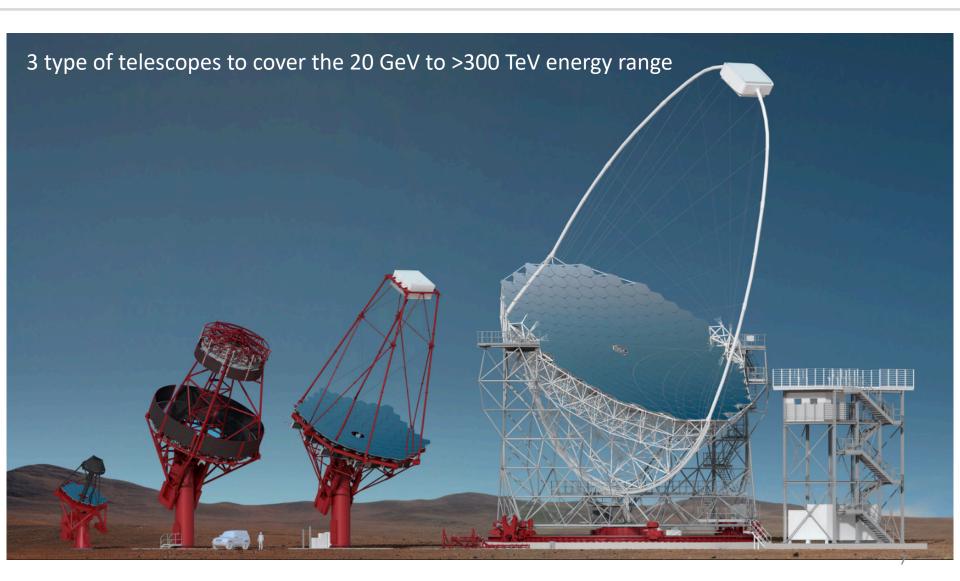
Science Data Management Centre



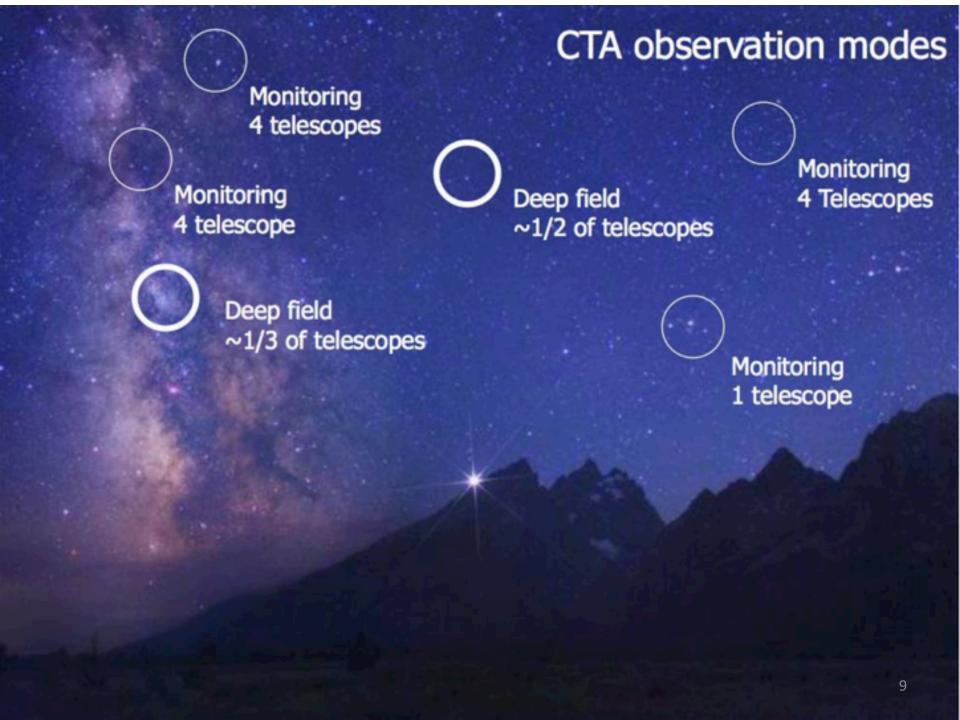
- To be located in Desy-Zeuthen
- Coordination of science coordination and products

Telescopes









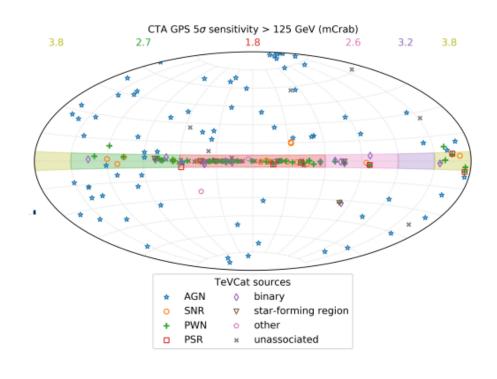
CTA observation modes



Survey mode: Full sky at current sensitivity in ~1 year

THE CTA GALACTIC PLANE SURVEY

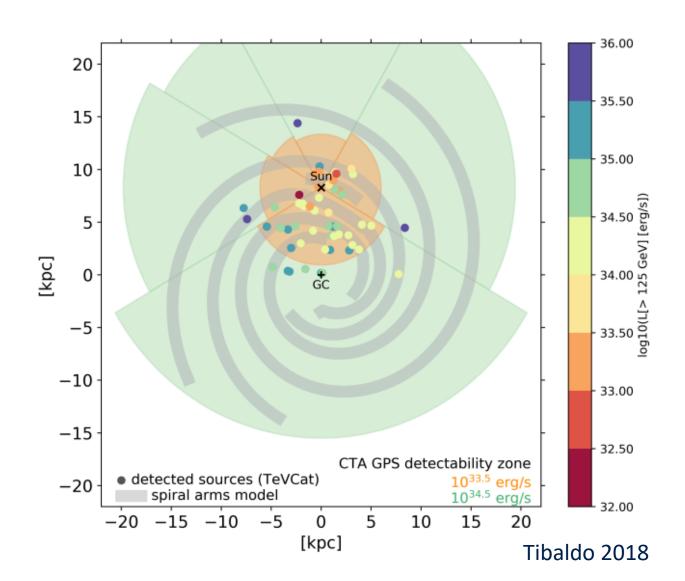




- Deeper observations in regions of stellar activity
- ~1600 h (N+S
- (Probably) rapid start over the first years to provide

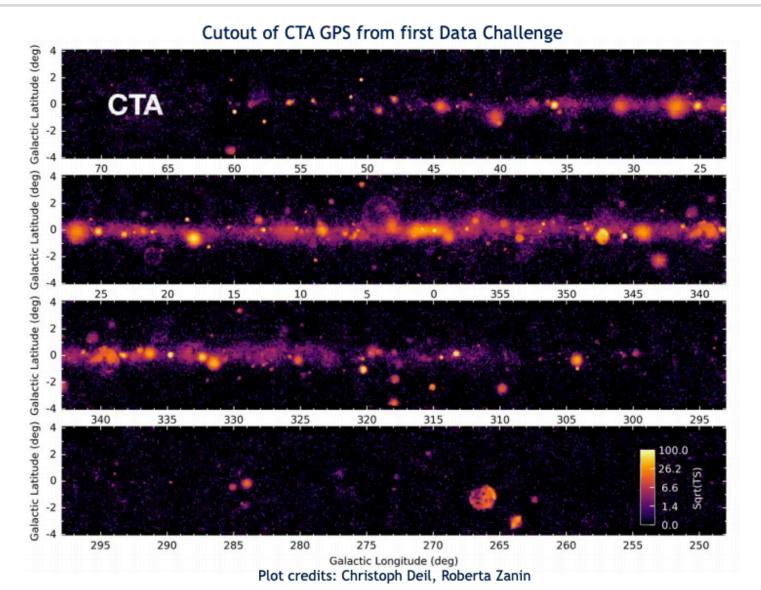
GALACTIC DISCOVERY REACH





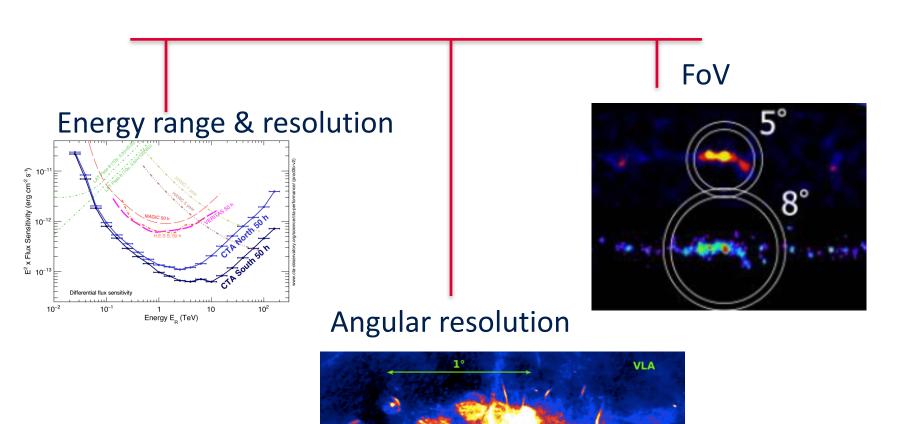
The GPS







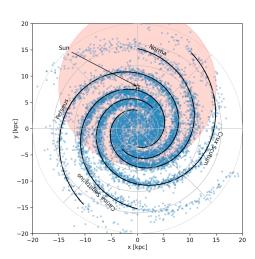
Three keys characteristics to detect halos

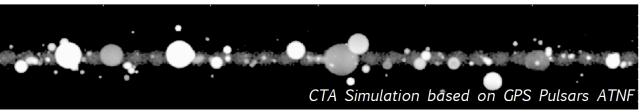


HESS PSF



But watch out for source confusion!







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and we are particularly grateful to Igor Oya from CTA SAPO for a flash review!