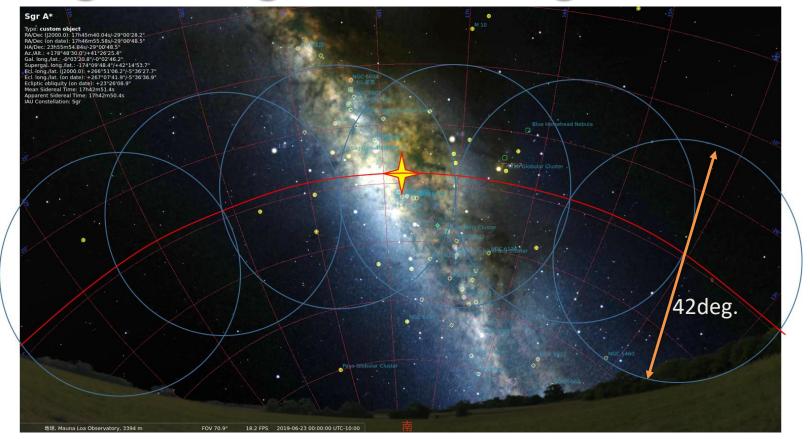


## Layout of Ashra-1 FOVs using existing and rearranged detetors

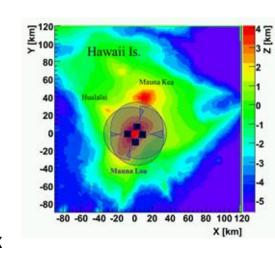


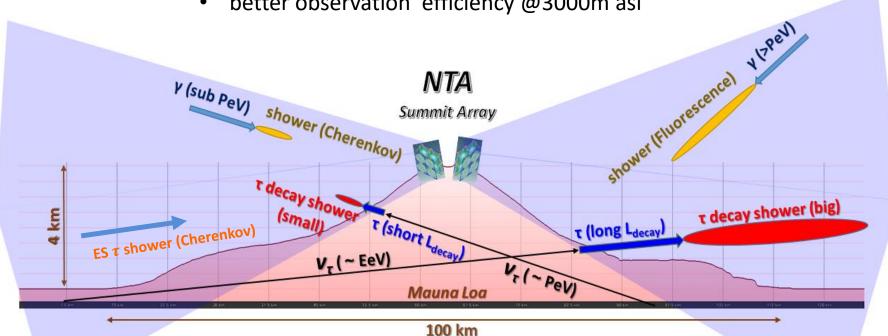
Simulated southern sky at the Ashra-1 Mauna Loa site at 0:00 on June 23, 2021. The star mark indicates the location of the galactic center (GC). The track of GC (arc) and the FOV of the rearranged Ashra-1 light collectors

(circles) are also shown.

## NTA summit array detection of $v / \gamma$ -ray / CR

- τ decay length:  $L_{\tau} \sim 50 \text{m} (E_{\tau}/\text{PeV})$   $\Rightarrow$  can watch nearler  $1 \sim 10 \text{PeV}$  AS max
- lower detection E thereshold
- better observation efficiency @3000m asl





## NTA diffuse v sensitivity: with Cherenkov & fluorescence light

