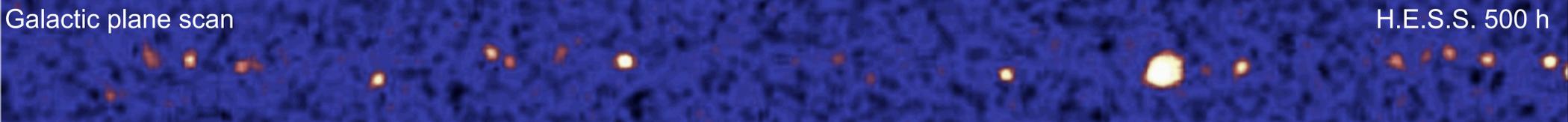


Towards a Whole-Sky TeV Survey

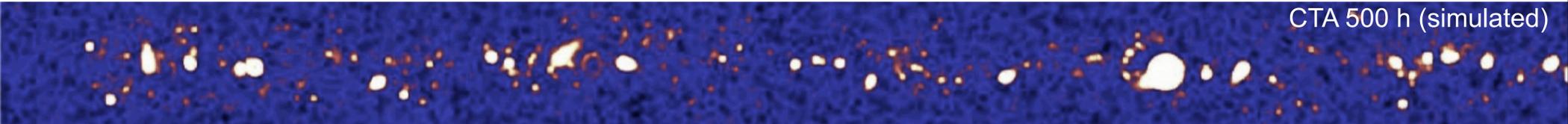
Lucie Gerard, Anneli Schulz (DESY)

Galactic plane scan

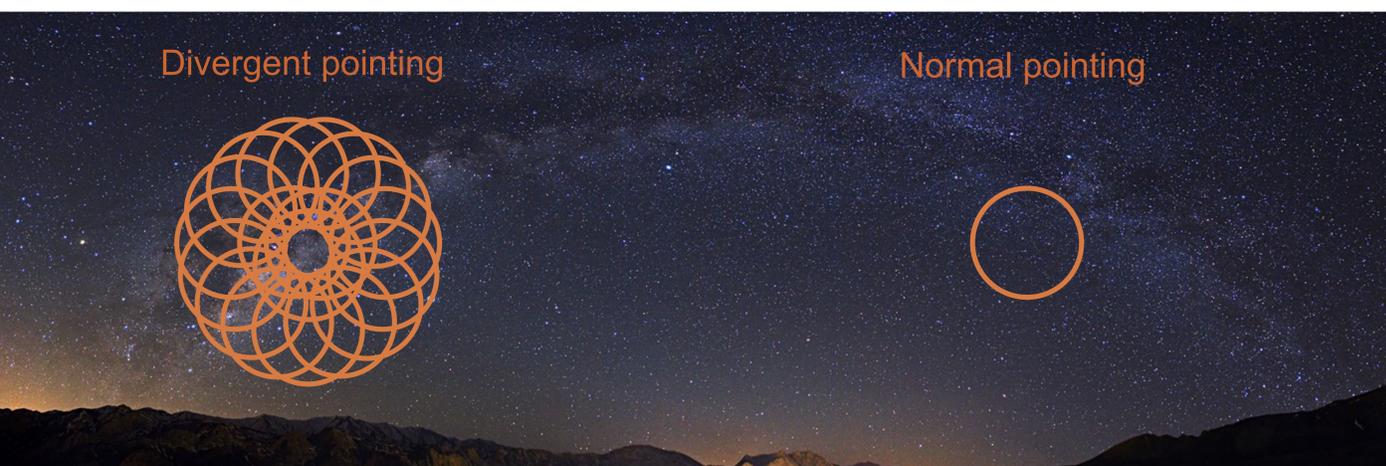
H.E.S.S. 500 h



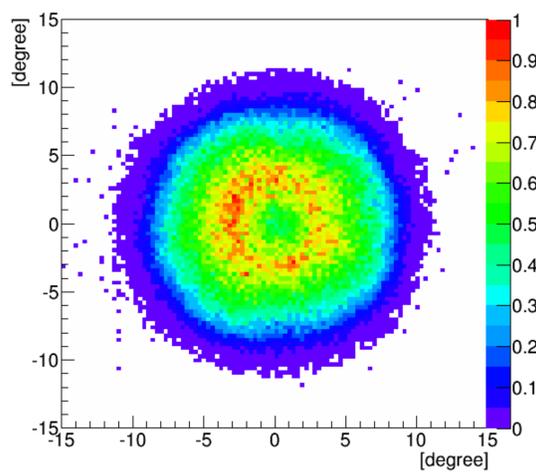
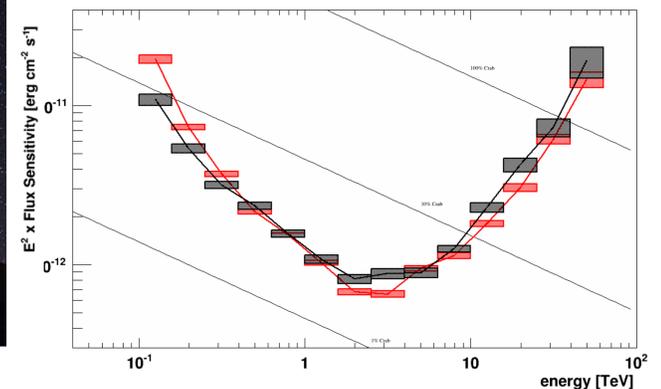
CTA 500 h (simulated)



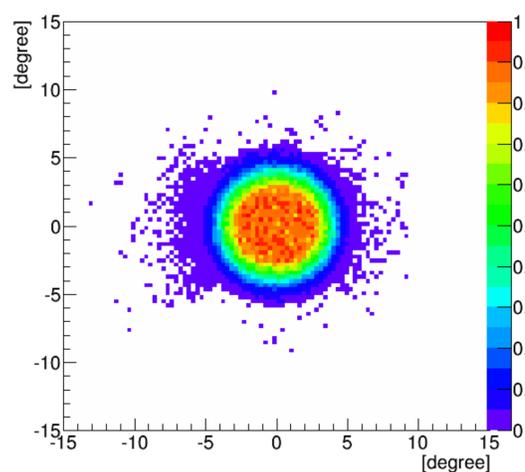
Exploring CTA Observing Modes for Surveys – Divergent Pointing



Divergent (red) and normal (back) pointing sensitivity curves. The ratio of observing time equals ratio of the field of view area.



CTA acceptance map for gamma-rays using divergent pointing.

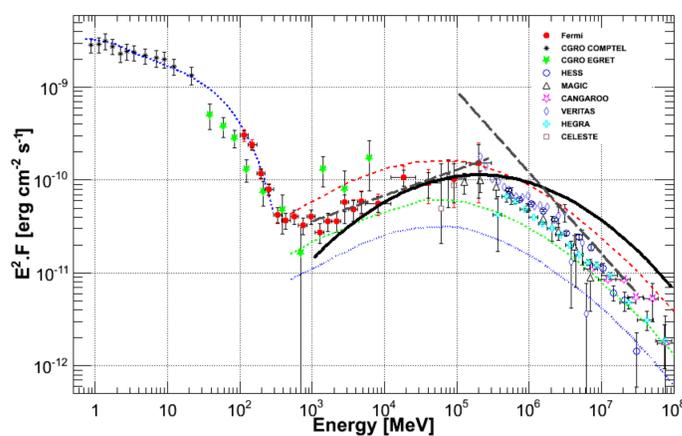


CTA acceptance map for gamma-rays using normal pointing.

The road towards performance evaluation:

- Simulations for large field of view
- Adaptation of the analysis
- Optimization of the telescopes pointing pattern

A Common Framework for All-Sky Analyses



Spectral energy distribution of the Crab Nebula. ctools fit results (solid and dashed black lines) compared to published results

Key aspects of GammaLib and ctools

- Unifying the analyses of gamma-ray data
- Simultaneous multi-instrument analysis
- Maximum likelihood model fitting
- Usability for public observatory software
- Ability to simulate CTA data and calculate sensitivities

