

Towards a Whole-Sky TeV Survey

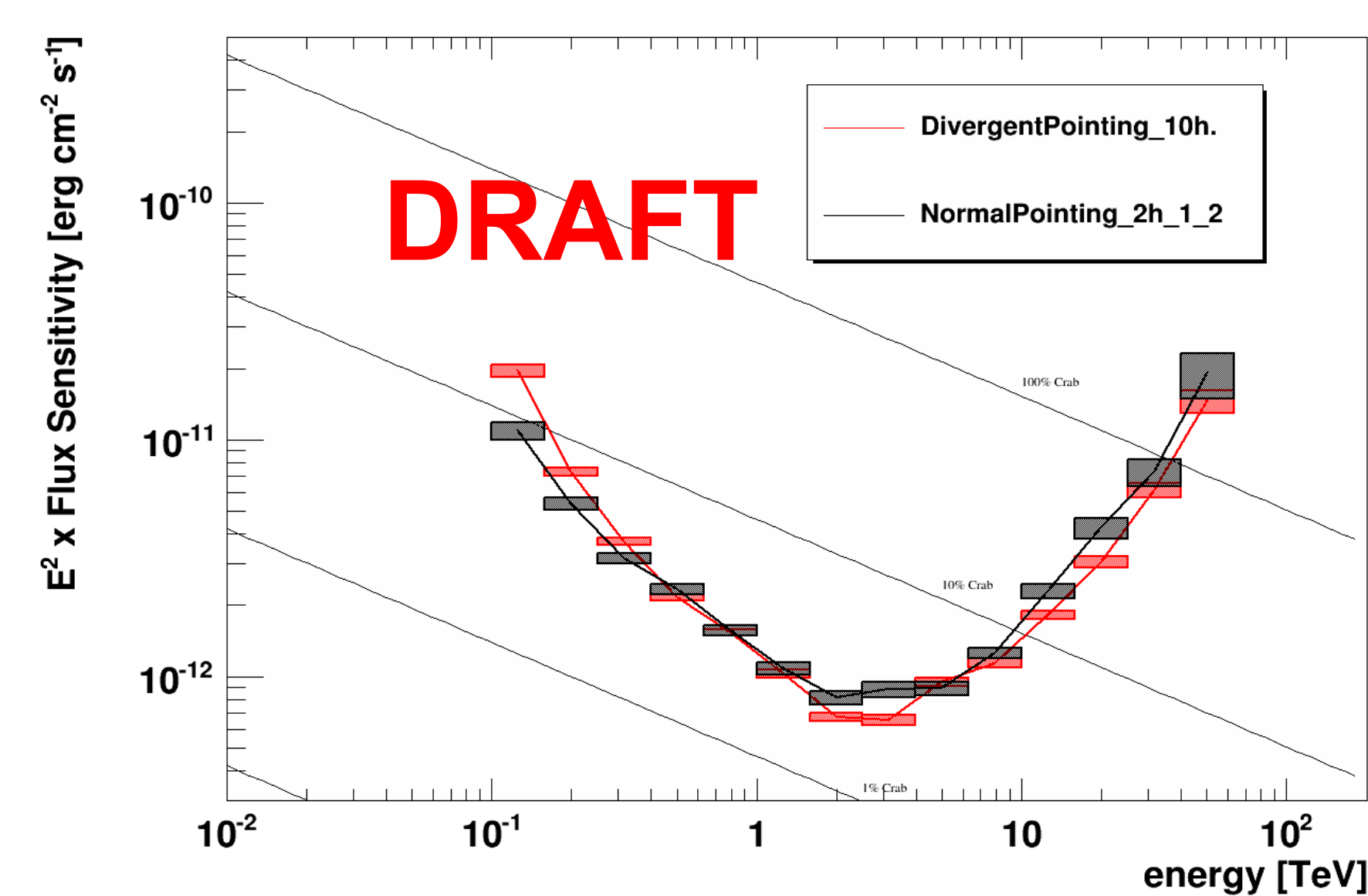
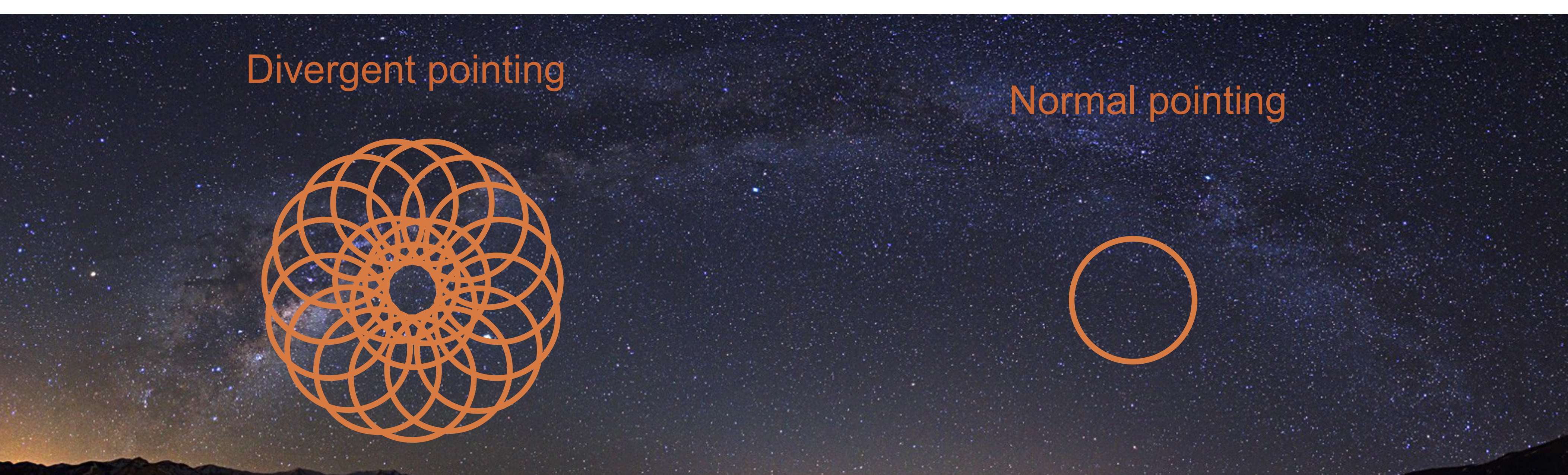
Lucie Gerard, Anneli Schulz, DESY

Galactic plane scan

H.E.S.S. 500 h

CTA 500 h (simulated)

Exploring CTA Observing Modes for Survey – Divergent Pointing



Sensitivity map
for sky survey
covered with **divergent pointing**

Done using ctools
(second part of this poster)

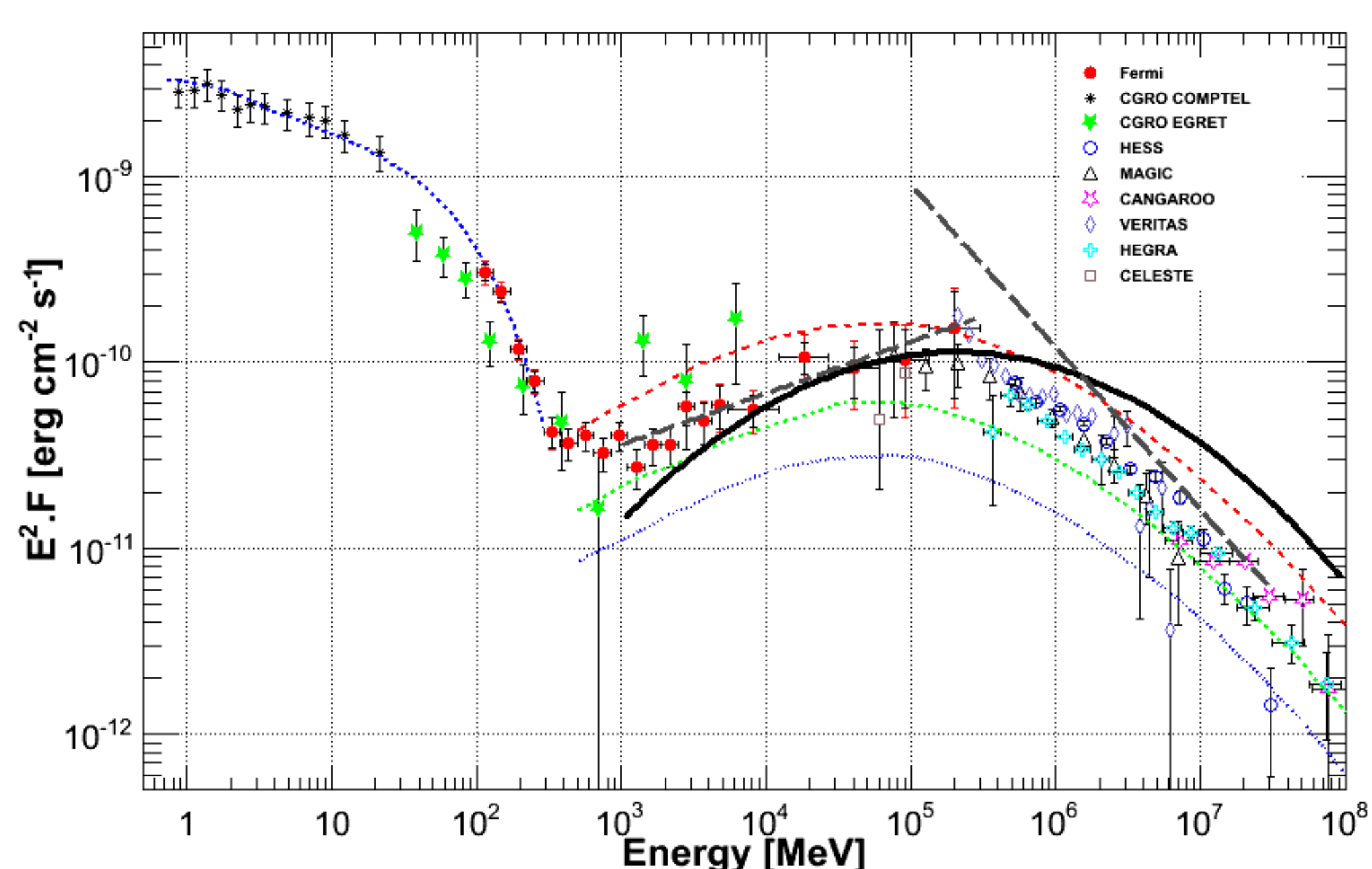
Sensitivity map
for sky survey
covered with **normal pointing**

Done using ctools
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The road towards performance evaluation:

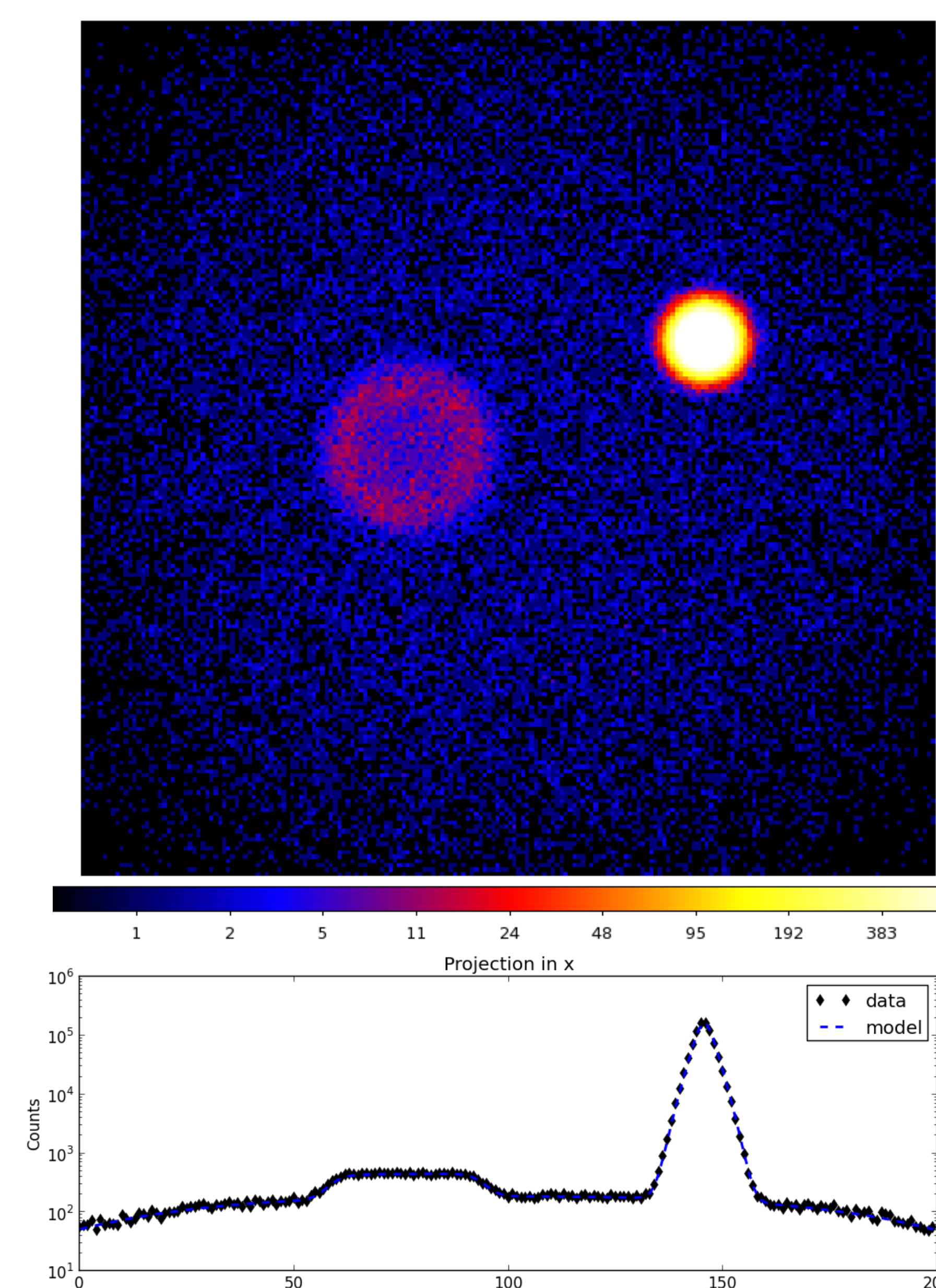
- Simulations for large field of view
- Adaptation of analysis
- Optimization of the telescopes pointing pattern

All-sky Analysis – GammaLib and ctools



Key aspects of the analysis framework

- Unifying the analysis of gamma-ray data
- Simultaneous multi-instrument analysis capabilities
- Maximum likelihood model fitting
- Usability as public observatory software



Towards a Whole-Sky TeV Survey

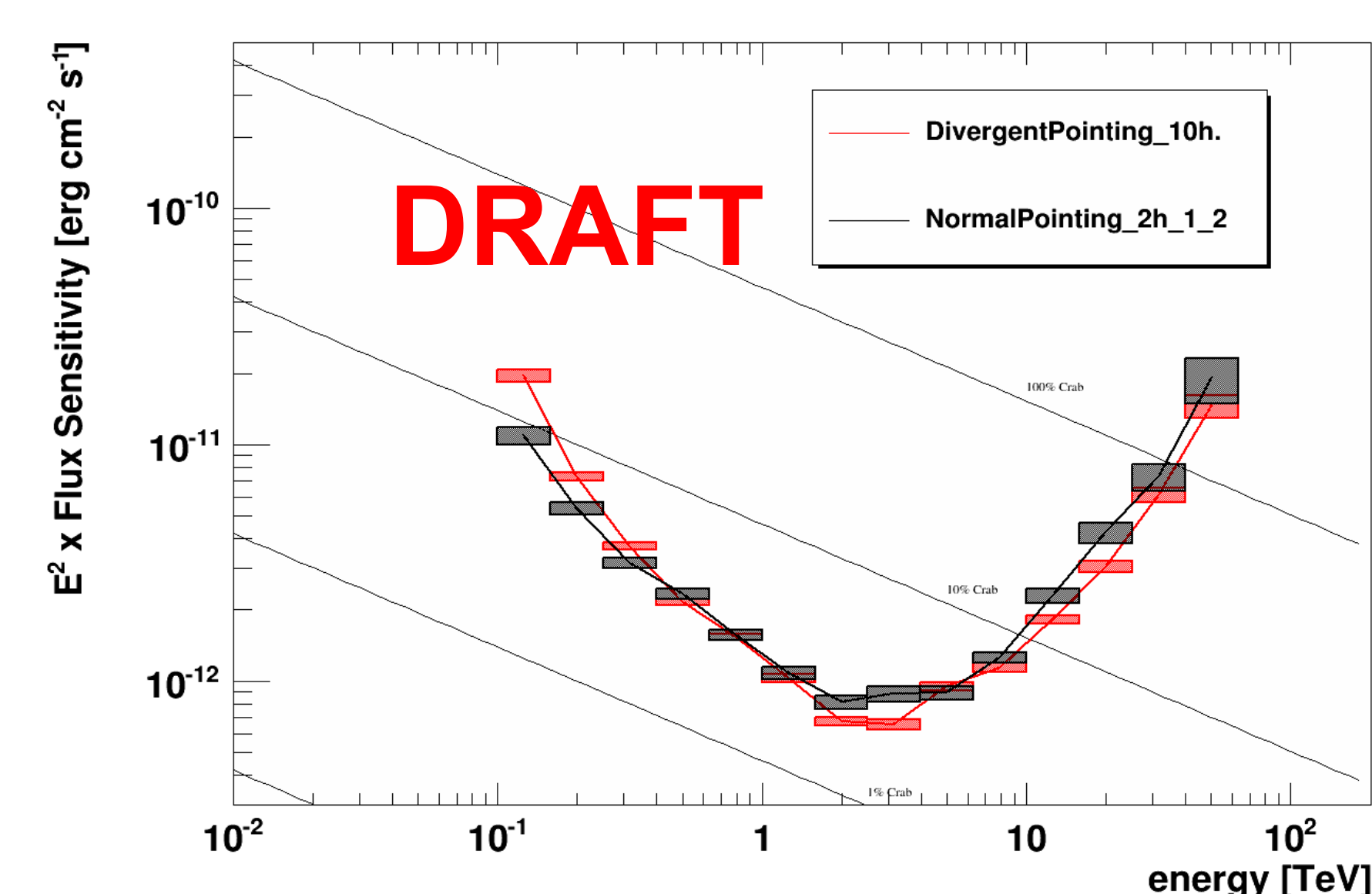
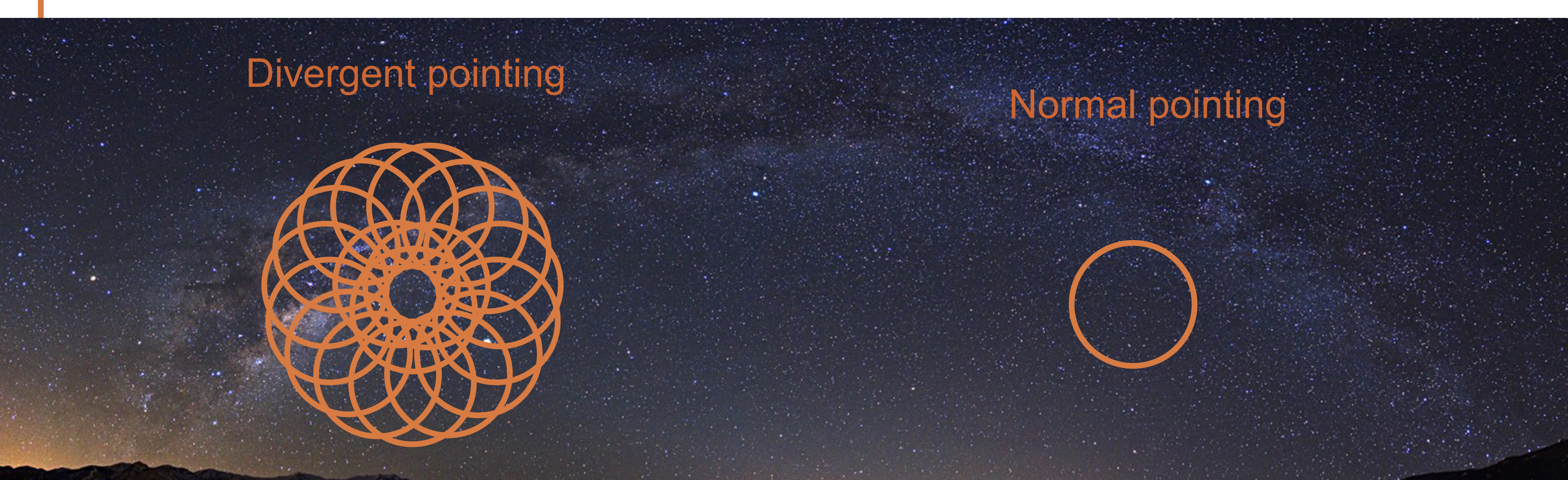
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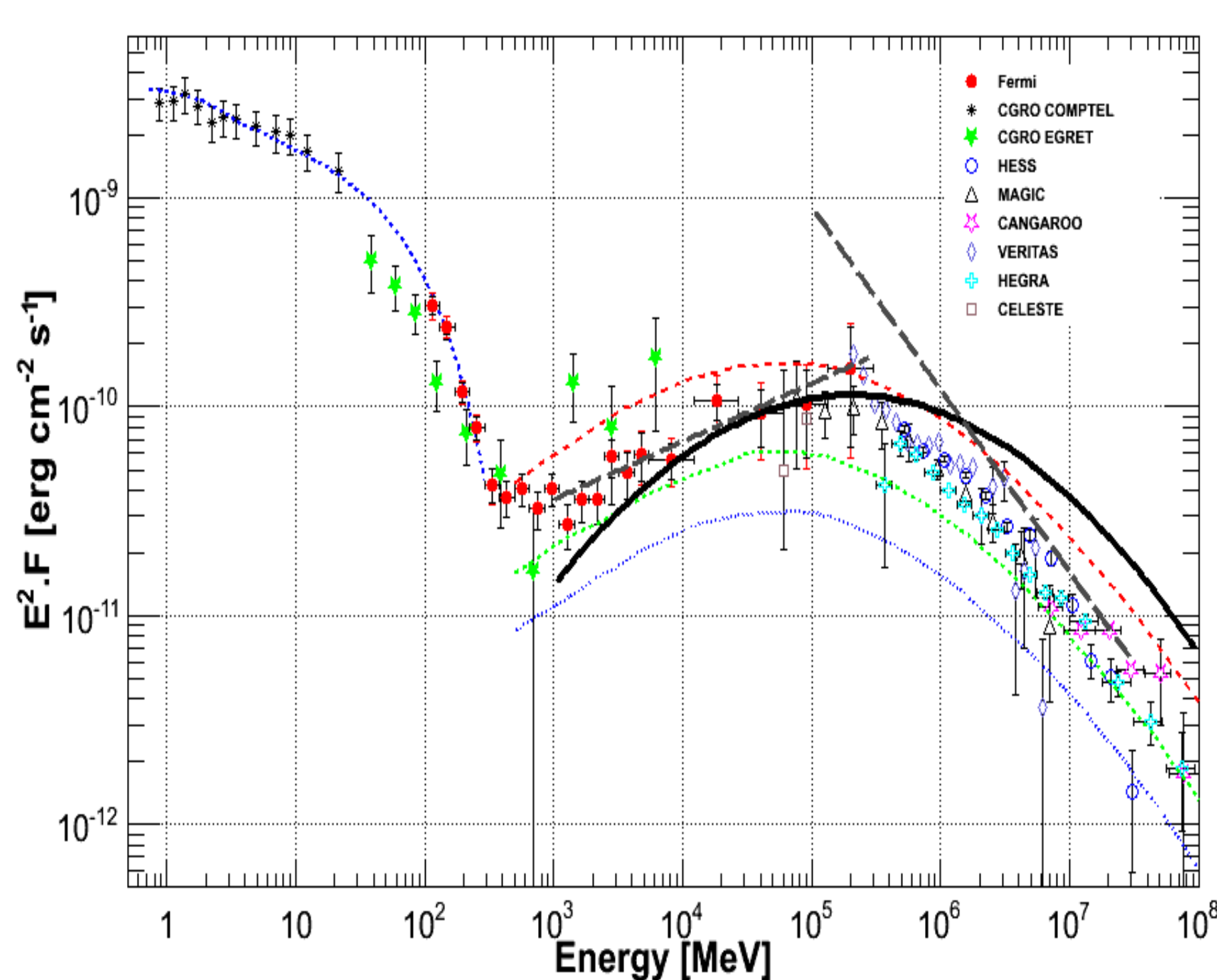
Sensitivity map
for sky survey
covered with **normal pointing**

Done using ctools
(second part of this poster)

The road towards performance evaluation:

- dedicated set of simulations
- adaptation of analysis
- optimization of the telescopes pointing pattern

All-sky Analysis – GammaLib and ctools



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- Unifying the analysis of gamma-ray data
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