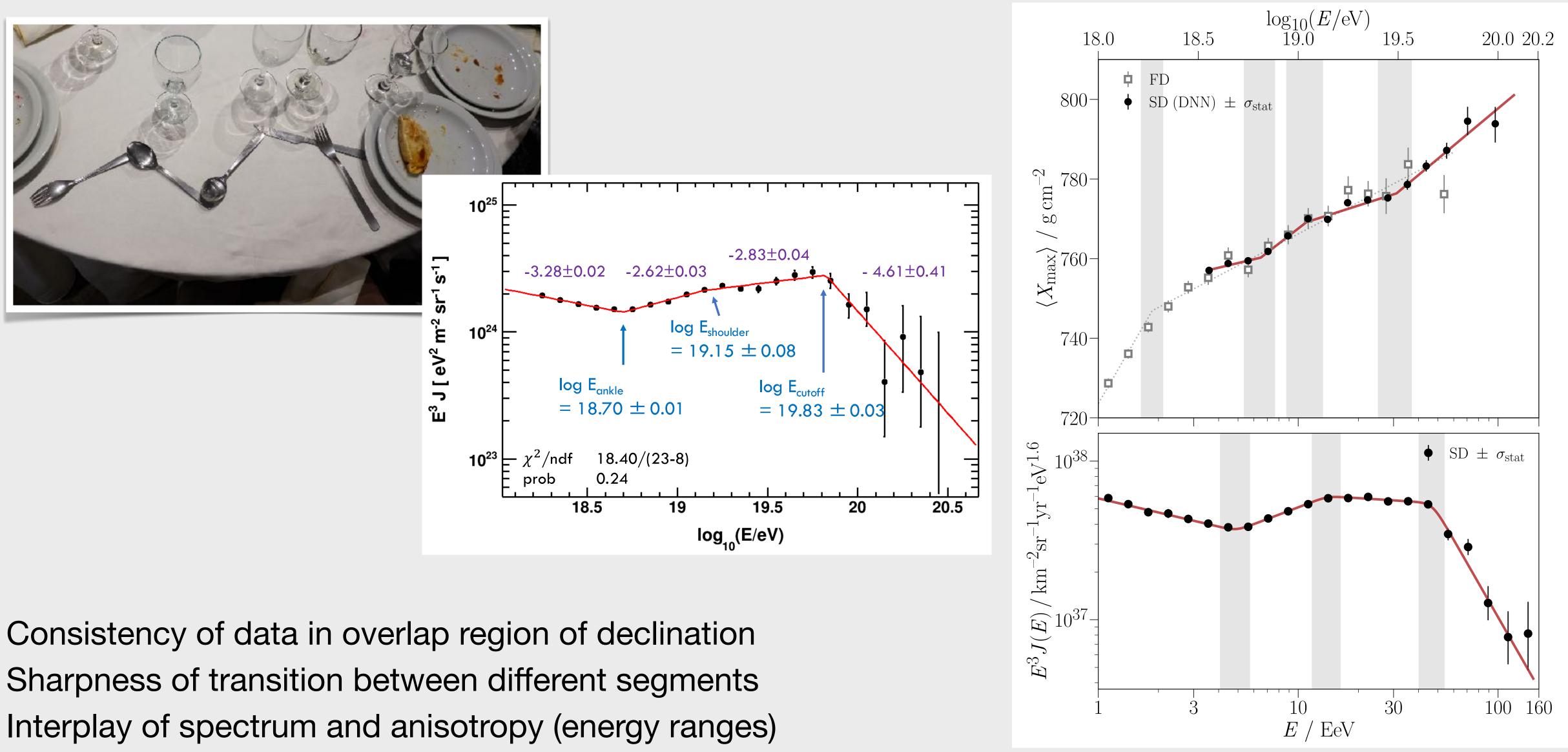
# **UHECR Symposium 2024 – Wrap-up**

(picture courtesy S. Saffi)

#### Ralph Engel (KIT)

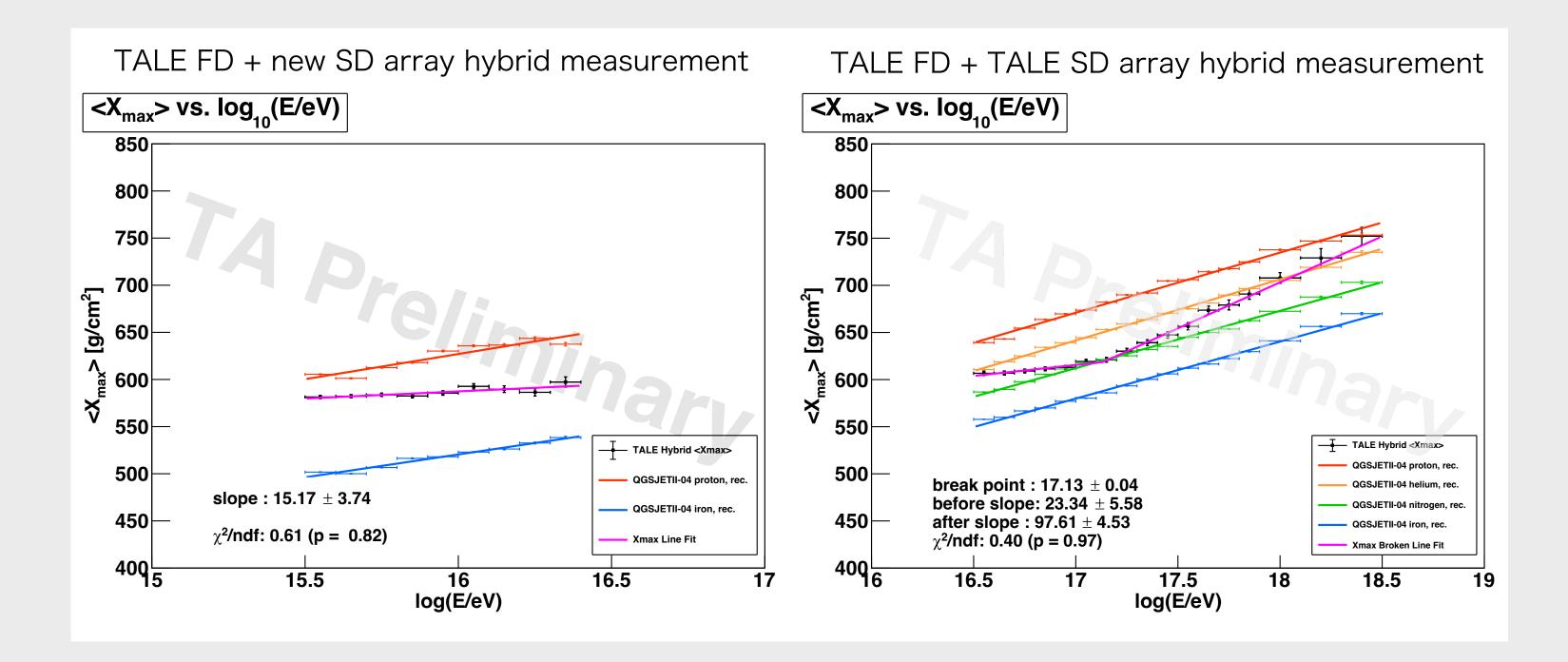




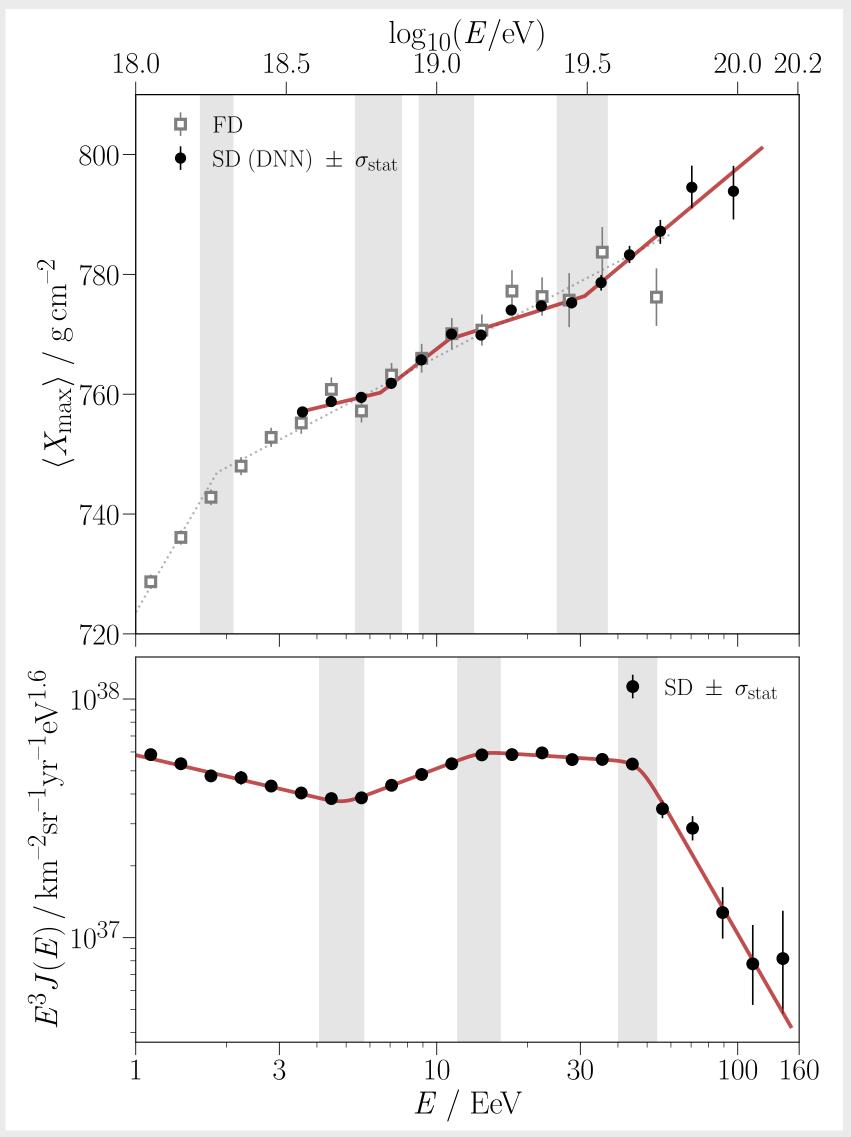
#### Some thoughts – energy spectrum



## **Some thoughts – mass composition**

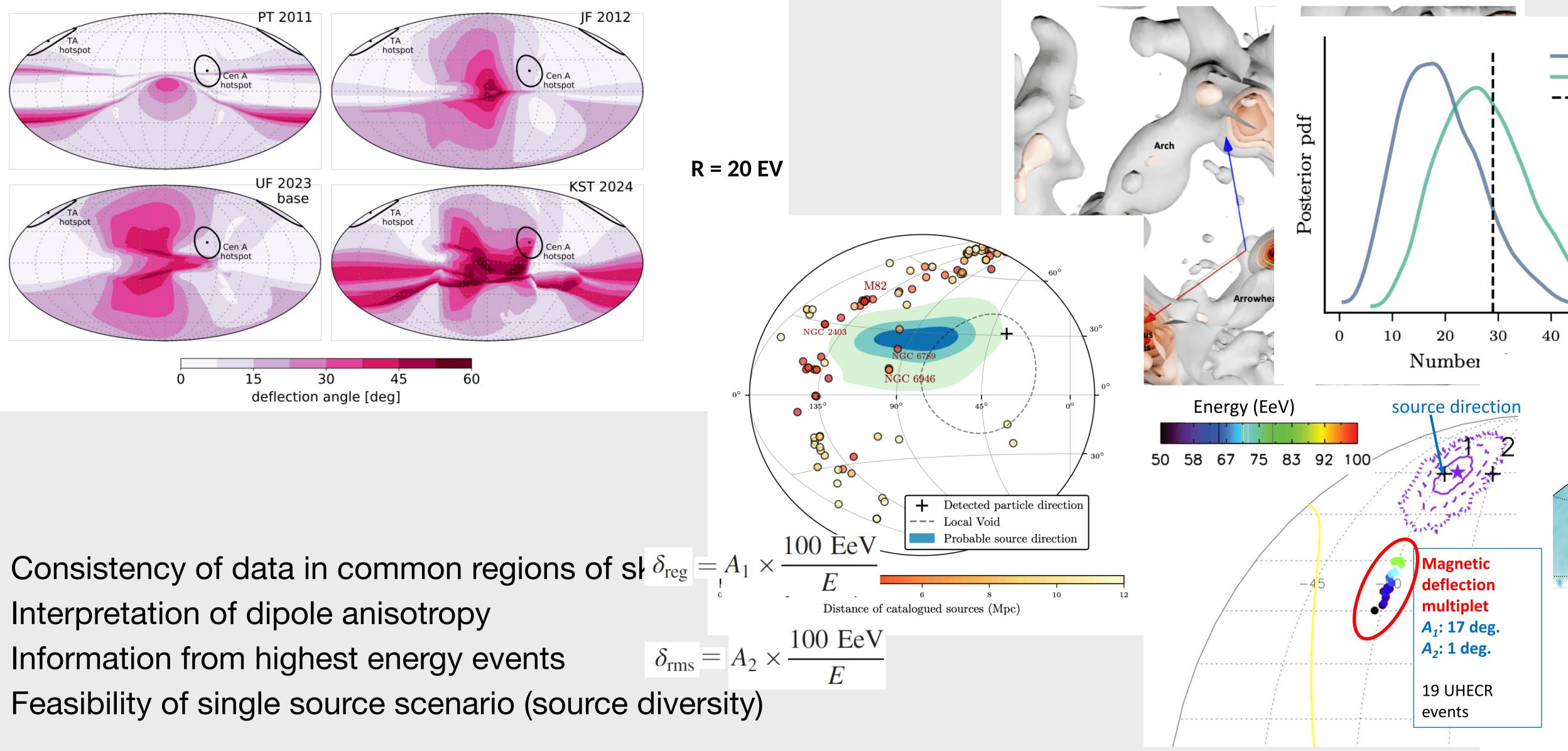


Consistency of data in energy range with expected isotropy Sharpness of transition between different regions Tension between mean Xmax and fluctuations Model uncertainty for mass composition interpretation Muon discrepancy (low/high energy, muon energy spectrum)

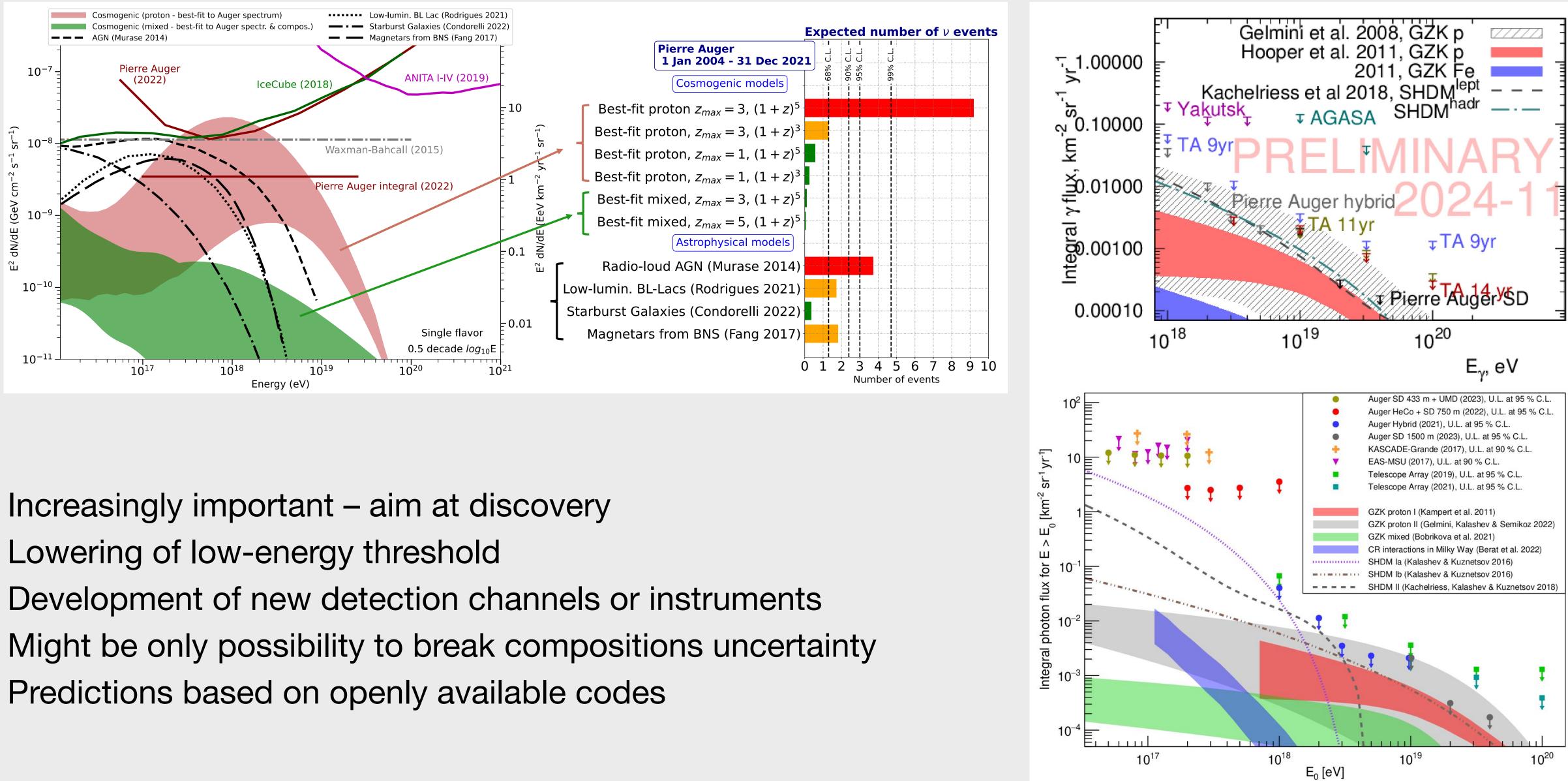




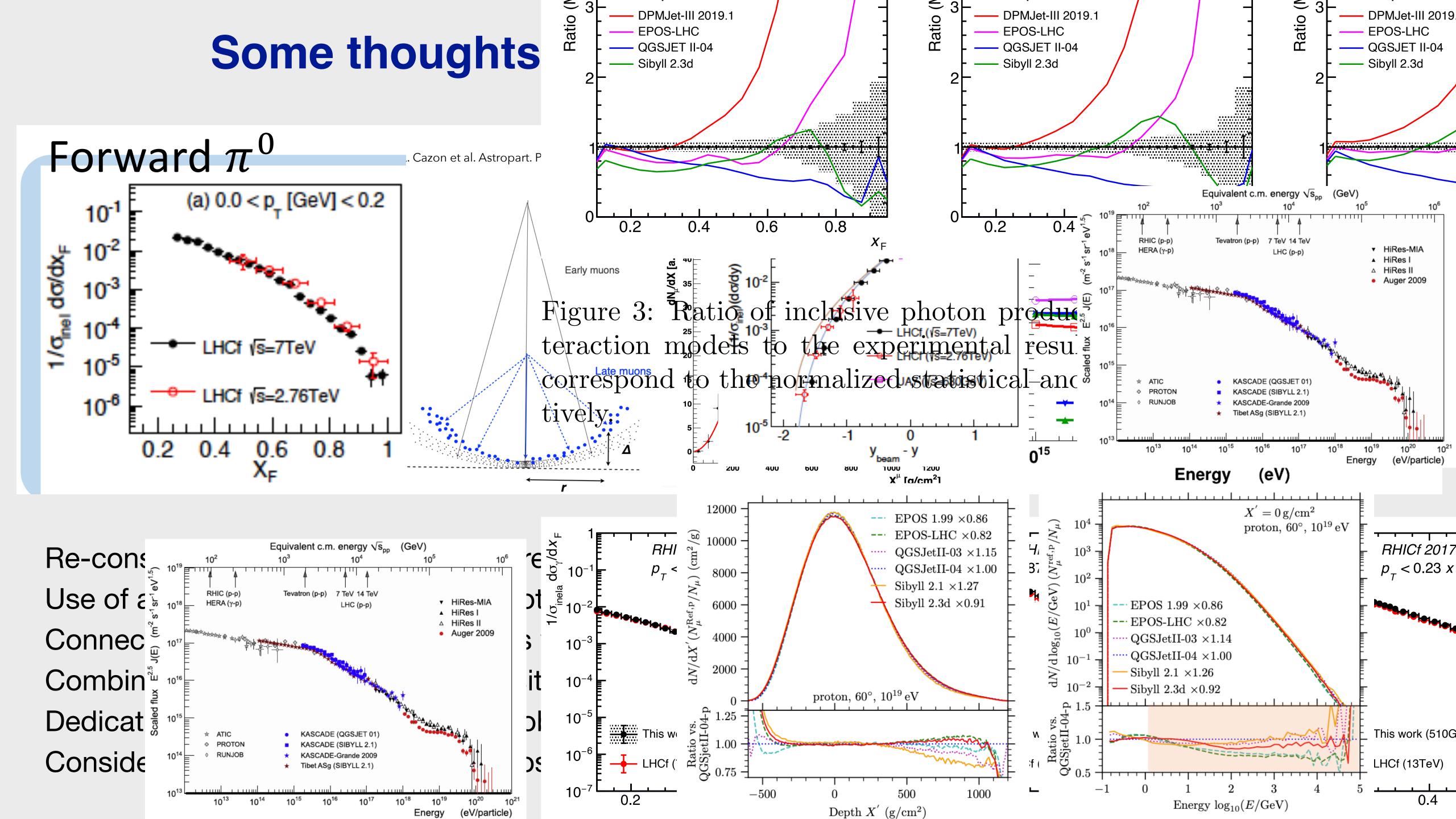
## **Some thoughts – anisotropy**



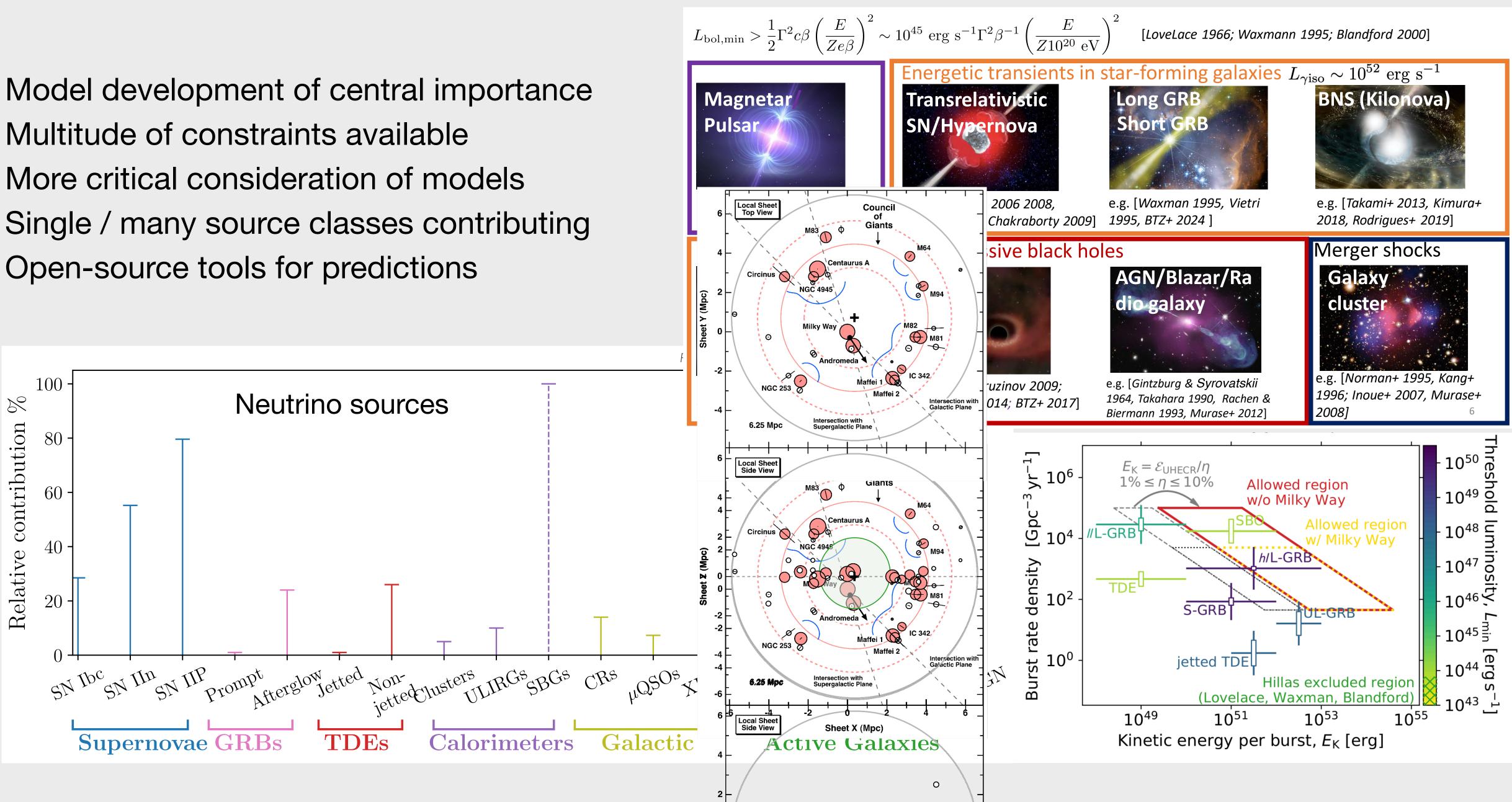
## Some thoughts – multi-messenger observations







# Some thoughts – source model building







8 review talks, 53 contributed talks, 59 poster contributions, 2 poster prizes

#### UHECR 2024, Malargüe, Argentina

**153 participants** 20 countries Argentina Belgium Brazil China Czechia France Germany Italy Japan Mexico Netherlands Norway Peru Poland Portugal Russia Slovenia Spain Taiwan **United States** 



### The committees

MALARGÜE

#### Local Organizing Committee

Contact email: uhecr2024@auger.org.ar

Ingo Allekotte

Belén Andrada

Fernando Gollán

Geraldina Golup

Federico Sánchez

#### International Advisory Committee

Chair : Ralph Engel

- P. Blasi
- A. Castellina
- I. De Mitri
- T. Ebisuzaki
- P.L. Ghia
- F.L. Halzen
- Y. Itow
- K.-H. Kampert
- P. Klimov
- P. Lipari
- J. Matthews
- S. Ogio
- I.H. Park
- E. Parizot
- E. Resconi
- M. Roth
- G. Rubtsov
- D. Ryu
- H. Sagawa
- P. Sokolsky
- Y. Tsunesada

e	e	
. U	~	

