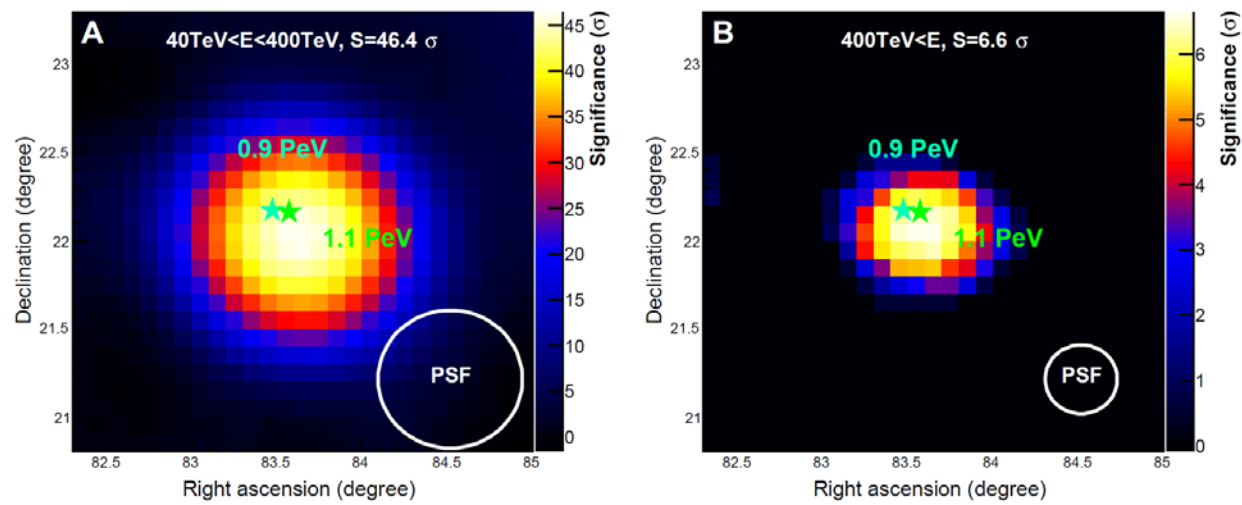


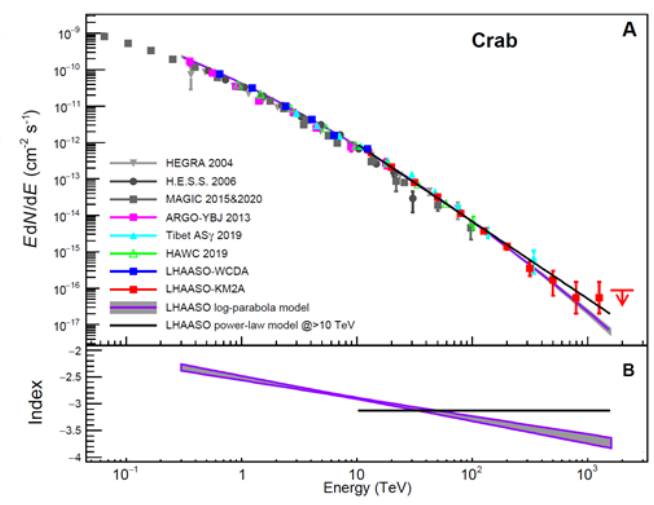
Lingyu Wang On behalf of the LHAASO collaboration

## ✓ Observations of the Crab Nebula

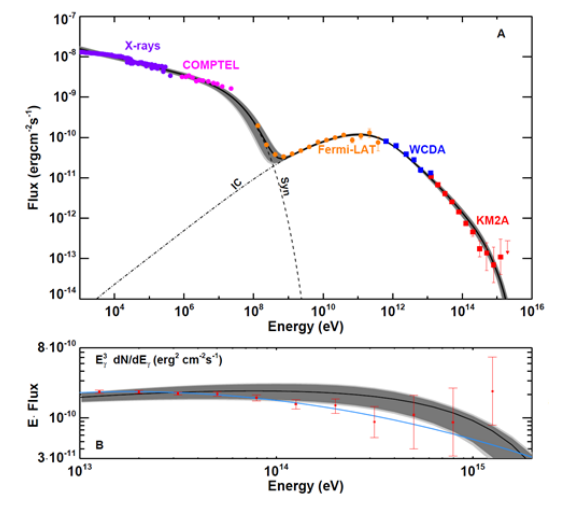
- ✓ The detection of PeV photons implies an acceleration rate that overcomes the synchrotron losses of the parent electrons up to PeV energies, with an acceleration rate exceeding 15% of the theoretical limit
- ✓ Within the idealized synchrotron-IC one-zone model, the spectral points from 10 TeV to 1 PeV agree with the IC  $\gamma$ -ray prediction within the statistical uncertainties.
- ✓ Between 60 and 500 TeV, a deviation of  $4 \sigma$  significance indicates a steeper spectrum than the one-zone model predictions.



Significance maps of the Crab Nebula



Flux and fitting results



Spectral energy distribution