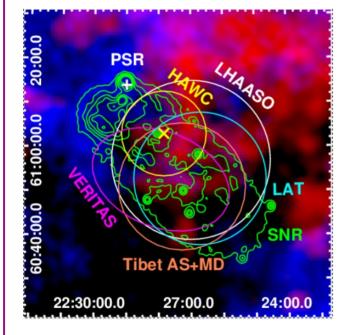
SNR G106.3+2.7: A likely Proton PeVatron

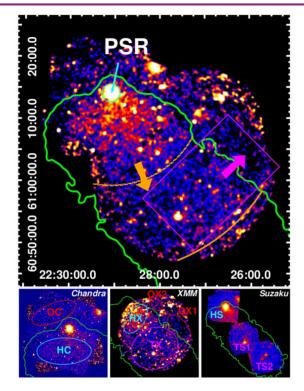
Ge, **Ruo-Yu Liu,** Niu, Chen & Wang 2021 Innovation, 2, 100118; arXiv:2012.11531



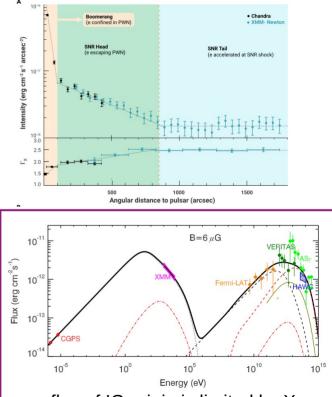
A middle aged SNR associated with the Boomerang Nebula powered by PSR J2229+6114 (t_c =10kyr, L_s =2.2e37erg/s)



Blue: Atomic (HI) Cloud Red: Molecular Cloud Green: Radio Contour



Nonthermal X-ray discovered from the nebula, the head, and the tail region. Shock speed >=3000km/s PeV proton acceleration possible



γ flux of IC-origin is limited by X-ray observation and KN effect, a hadronic component is needed at least for >10TeV emission