



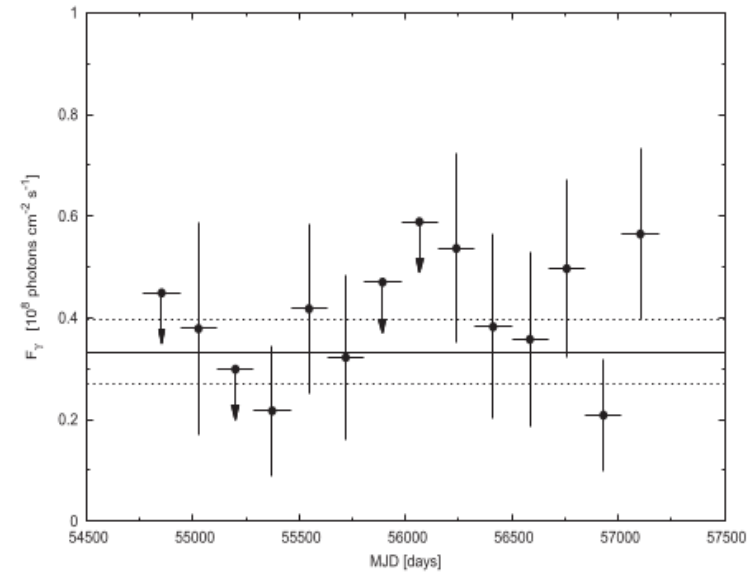
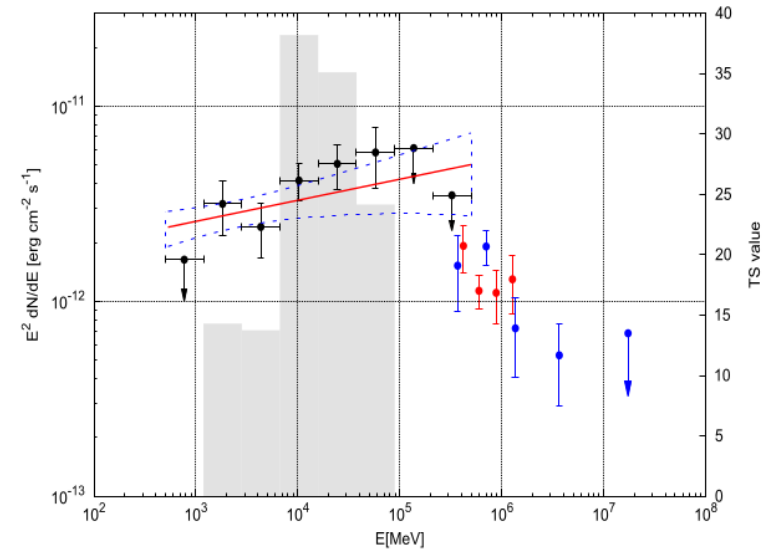
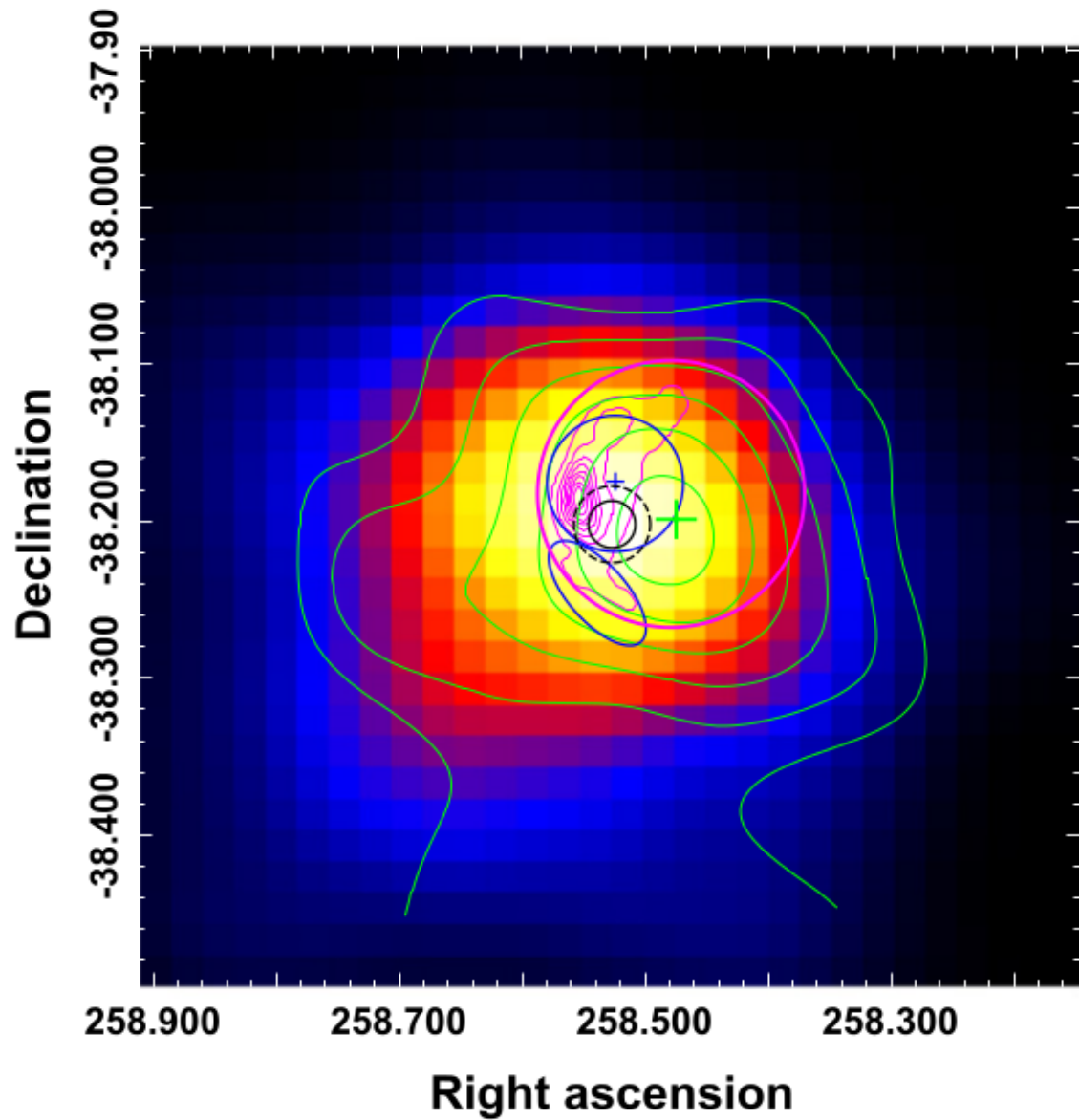
Gamma-ray emission from Supernova Remnants

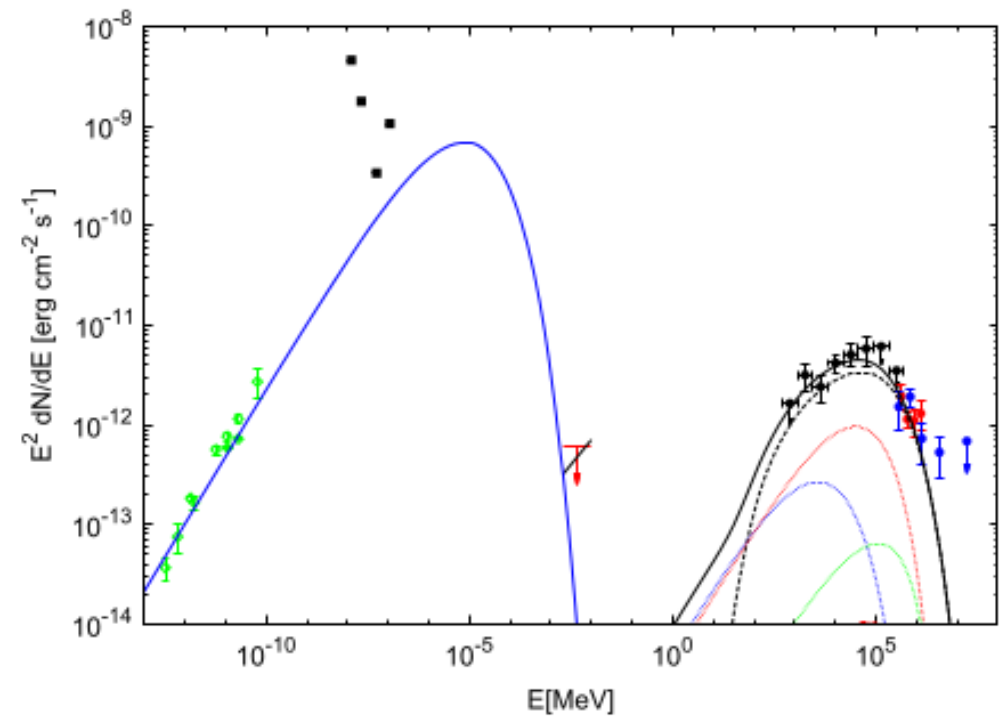
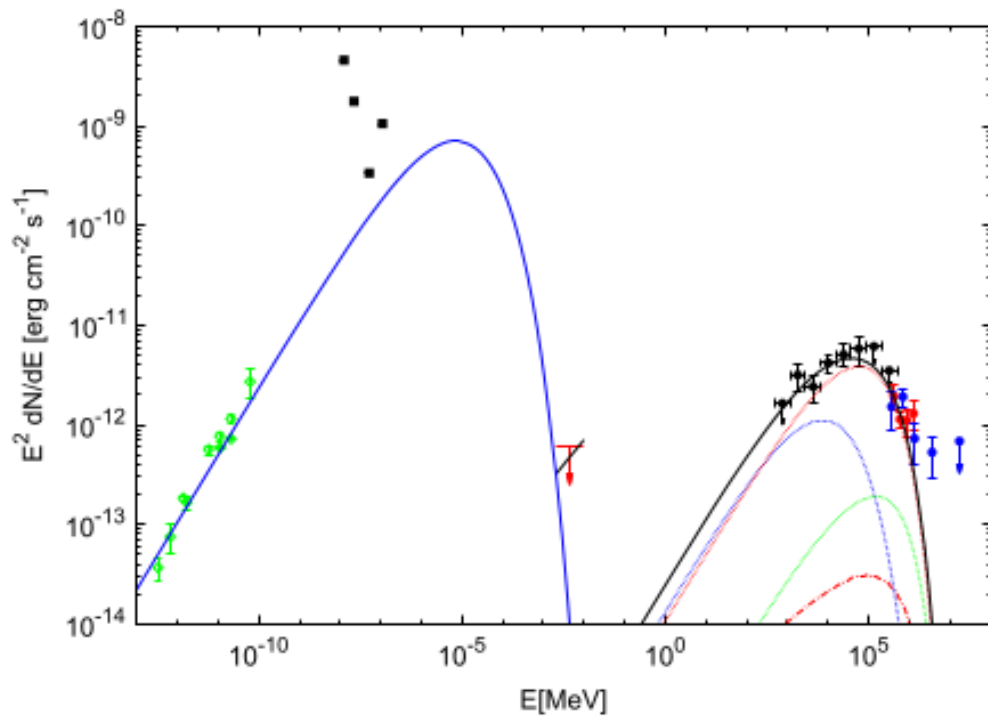
Yuliang Xin
ylxin@pmo.ac.cn

Collaborators: Daming Wei, Siming Liu, Qiang Yuan etc.

Purple Mountain Observatory,
Chinese Academy of Sciences

SNR CTB 37B [(2016),ApJ,817,64]





Model	α_p	α_e	$E_{p, cut}$ (TeV)	$E_{e, cut}$ (TeV)	W_p (10^{50} erg)	W_e (10^{50} erg)	B (μG)	n_{gas} (cm^{-3})
leptonic	...	1.65	...	0.92	...	0.09	100	0.5
hadronic	1.86	1.65	3.0	0.65	50	0.03	200	0.5

Note. The total energy of relativistic particles, $W_{e,p}$, is calculated for $E > 1$ GeV.

- Parameters of both models suggest more efficient particle acceleration than typical SNRs.
- Meanwhile, the X-ray and γ -ray spectral properties of CTB 37B show that it is an interesting source bridging young SNRs dominated by non-thermal emission and old SNRs interacting with molecular clouds.

Thank you !

Spring

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