Temporal and Spatial Variation of Synchrotron X-ray Stripes in Tycho's Supernova Remnant



- Most of the features show a proper motion by the expansion of the SNR.
- However, some changes of the stripe feature cannot simply be account for the expansion.

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Figure1. (a) Difference image the in 4-6 keV band of Tycho between 2003 and 2015. (b) Zoom-in view

Spectral analysis



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$$\frac{B}{00\ \mu\text{G}}\right)^{-1.5} \left(\frac{v_{\text{sh}}}{3400\ \text{km}\ \text{s}^{-1}}\right)^{-2} \text{ yr,}$$