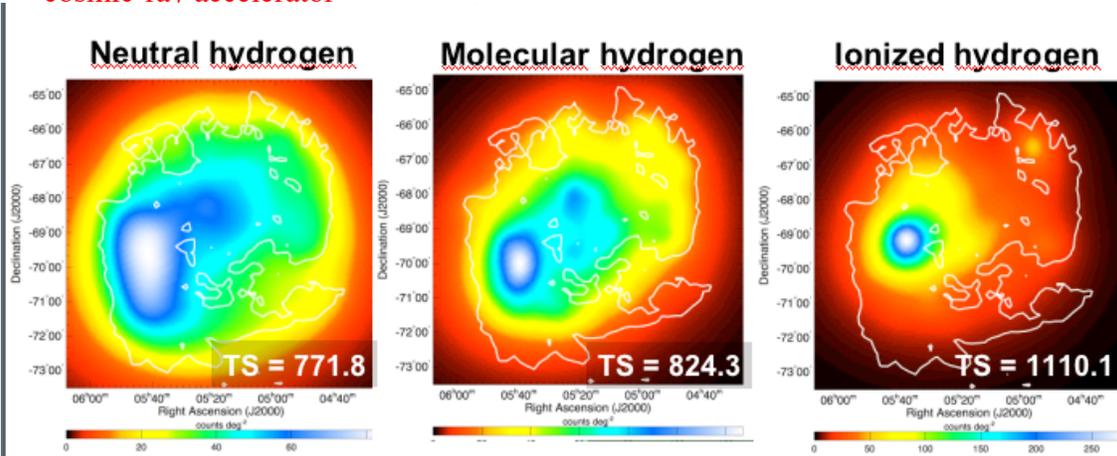


LMC Cosmic Rays and γ -rays

γ -ray emission correlates with massive star forming regions and not with the gas distribution (simulated images if the γ -ray emission was distributed like the source)

– Compactness of emission regions suggests little CR diffusion

- 30 Doradus star forming region is a bright source of gamma rays and very likely a cosmic-ray accelerator



- **Neutral & molecular hydrogen templates poorly fit the data**

- **Ionized hydrogen template provides best fit**

γ -ray emission poorly correlated with dense gas (!)

Dermer 2011 44