



## Tycho's Supernova Remnant

A long Chandra observation of the Tycho supernova remnant has revealed a pattern of X-ray "stripes." The stripes, which were discovered in the high-energy X-ray band (blue), are found to the lower right of this image. They may provide the first direct evidence that a supernova shock wave can accelerate particles to energies a hundred times higher than the most powerful accelerator on Earth. High-energy X-rays produced by a shell of extremely energetic electrons behind the supernova shock wave can also be seen. Low-energy X-rays (red) reveal expanding debris from the supernova explosion in this composite image that also includes optical data from the Digitized Sky Survey.

## February 2012

S	M	T	W	Th	F	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29			