



## APRIL 2017

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### SDSS J103842.59+484917.7

Astronomers think that in the future the “Cheshire Cat” group – officially known as SDSS J103842.59+484917.7 -- will become what is known as a fossil group, a gathering of galaxies that contains one giant elliptical galaxy and other much smaller, fainter ones. Today, researchers know each “eye” galaxy is the brightest member of its own group of galaxies and these two groups are racing toward one another at over 300,000 miles per hour. Data from Chandra (purple), which has been combined with optical data from Hubble, provide evidence that the galaxy groups are slamming into one another.

X-ray: NASA/CXC/UA/J.Irwin et al; Optical: NASA/STScI