



**Chandra X-ray
Observatory Center**

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Space-time Foam: Extremely tiny bubbles and irregularities in space-time predicted by certain theories.
(Credit: NASA/CXC/FIT/E.Perlman et al, Illustration: NASA/CXC/M.Weiss)

Caption: Observations of distant quasars in X-rays from Chandra (top six images) and gamma-ray telescopes are helping scientists test the nature of space-time at extremely small scales. This artist's illustration (bottom) depicts how the foamy structure of space-time may appear, showing tiny bubbles quadrillions of times smaller than the nucleus of an atom that are constantly fluctuating and last for only infinitesimal fractions of a second.

Chandra X-ray Observatory ACIS Image

CXC operated for NASA by the Smithsonian Astrophysical Observatory