

Cosmic x-ray astronomy

A. Hilger, c1980. - **Chandra :: Field Guide to X**

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Notes: Includes bibliographies and index.

This edition was published in 1980



Filesize: 38.78 MB

within two cones of gas extending outward from opposite sides of the central object.

Seeing some cosmic X

With respect to celestial X-ray sources, X-ray astrophysics tends to focus on the physical reason for X-ray brightness, whereas X-ray astronomy tends to focus on their classification, order of discovery, variability, resolvability, and their relationship with nearby sources in other constellations. However, the current popular hypothesis involves a merger of a close binary system in which the orbital angular momentum of the companion is transferred to the primary.

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Usually observational astronomy is considered to occur on Earth's surface or beneath it in. If a stream of photons encounters a gas, those photons whose energy corresponds to energy levels in an atom a step will be absorbed by the atom. The Sun has been known to be surrounded by a hot tenuous corona.

Seeing some cosmic X

The history and future of X-ray astronomy is a story best told by its participants, so we asked six scientists to share their memories, impressions and thoughts about a field that couldn't exist before the Space Age.

The Capabilities of a Gas Scintillation Camera for Cosmic X

Another approach uses Chandra data to determine the ratio of hot gas to dark matter in clusters. While astronomers had previously seen X-rays

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The total flux in point sources in the 0. This faintness is a trick of perspective, according to the study: The high-energy X-rays from SS 433 are initially confined

from the Sun, this was the first detection of X-rays outside our Solar System.

Current Developments in Cosmic X

Unlike a rocket where data are collected during a brief few minutes, balloons are able to stay aloft for much longer. What's known for sure is that it is cannibalizing a large nearby star, its gravity siphoning away material at a rapid rate: In a single year SS 433 steals the equivalent of about 30 times the mass of Earth from its neighbor, which makes it the greediest black hole or neutron star known in our galaxy. Please select the most appropriate category to facilitate processing of your request.

X

Figure 1: NASA's Chandra X-ray Observatory was deployed by the Space Shuttle Columbia on July 23, 1999. X-ray photons can also be created under different conditions.

Seeing some cosmic X

Observations are revealing a growing number of recurrent , characterized by short outbursts with very fast rise times tens of minutes and typical durations of a few hours that are associated with OB and hence define a new class of massive X-ray binaries: Supergiant Fast X-ray Transients SFXTs.

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