

H2356-309

H2356-309 is a blazar (a type of active galactic nucleus) located behind the Sculptor Wall.

Discovery

Using the Chandra X-ray Observatory and the XMM-Newton, scientists have detected the warm-hot intergalactic medium (WHIM) between the galaxies in the Sculptor Wall. Scientists observed the absorption of a background light source in the warm-hot intergalactic medium. This background source is the blazer H2356-309.

Application

In data from the paper, CONFIRMATION OF X-RAY ABSORPTION BY WARM-HOT INTERGALACTIC MEDIUM IN THE SCULPTOR WALL,^[3] characteristics of this absorption in the sculptor wall by the oxygen atoms in particular, are similar to the absorption of the oxygen atoms in warm-hot intergalactic medium, giving scientists more assurance they can find other sources that compare to warm-hot intergalactic medium. There are also similarities in the predicted temperature and density of the warm-hot intergalactic medium compared to the Sculptor Wall.

References

1. "H2356-309: X-ray Discovery Points to Location of Missing Matter" (<https://chandra.harvard.edu/photo/2010/h2356/>). *Chandra*. Retrieved 28 November 2019.

2. "QSO B2356-309" (<http://simbad.u-strasbg.fr/simbad/sim-id?Ident=H2356-309&submit=submit+id>). *Simbad*. Retrieved 27 November 2019.

3. Fang, Taotao (2010). "Confirmation of X-Ray Absorption by Warm-Hot Intergalactic Medium in the Sculptor Wall". *The Astrophysical Journal*. **714** (2): 1715–1724. [arXiv:1001.3692](https://arxiv.org/abs/1001.3692) (<https://arxiv.org/abs/1001.3692>). Bibcode:2010ApJ...714.1715F (<https://ui.adsabs.harvard.edu/abs/2010ApJ...714.1715F>). doi:10.1088/0004-637X/714/2/1715 (<https://doi.org/10.1088%2F0004-637X%2F714%2F2%2F1715>). S2CID 17524108 (<https://api.semanticscholar.org/CorpusID:17524108>).

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H2356-309	
Observation data (Epoch)	
Constellation(s)	Sculptor ^[1]
Right ascension	23 ^h 59 ^m 0.7903 ^s ^[2]
Declination	−30° 37′ 40.67″ ^[2]
Redshift	0.1654 ^[2]
Distance (co-moving)	613 million pc (2 billion light-years) ^[1]