

## SAUNAS: III. X-ray Scaling Relations of Diffuse Hot Gas Galactic Halos<sup>\*</sup>

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### ABSTRACT

Put the abstract here.

### 1. BACKGROUND

Here is the intro section ([Aguerri et al. 1998](#); [?](#); [Bell et al. 2006](#)).

The first sentence in the intro!

The second sentence in the intro ([Erwin & Debattista 2017](#); [?](#)).

A 3rd sentence in the background.

Here is a comment, see if it changes color like it is supposed to.

#### 1.1. *Motivation*

The first sentence under motivation. ([Bernardi et al. 2006](#))

second sentence under motivation.

Third sentence right here right NOW!!

4th sentence

5th sentence here

##### 1.1.1. *Goals*

First sentence in this section underneath Goals.

### 2. METHODS

First sentence in methods section.

*Facilities:* Chandra

*Software:* CIAO, LIRA, VorBin

### REFERENCES

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- Bell, E. F., Phleps, S., Somerville, R. S., et al. 2006, *ApJ*, 652, 270, doi: [10.1086/508408](https://doi.org/10.1086/508408)
- Bernardi, M., Nichol, R. C., Sheth, R. K., Miller, C. J., & Brinkmann, J. 2006, *AJ*, 131, 1288, doi: [10.1086/499522](https://doi.org/10.1086/499522)
- Erwin, P., & Debattista, V. P. 2017, *MNRAS*, 468, 2058, doi: [10.1093/mnras/stx620](https://doi.org/10.1093/mnras/stx620)