Compiled: 05:42 Tuesday 20<sup>th</sup> August, 2024 (UTC) DRAFT VERSION TUESDAY 20<sup>TH</sup> AUGUST, 2024 Typeset using IATEX modern style in AASTeX631

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

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### ABSTRACT

Put the abstract here.

## 1. BACKGROUND

Here is the intro section (Aguerri et al. 1998; Bell et al. 2006b,a).

The first sentence in the intro!

The second sentence in the intro (Erwin & Debattista 2017; Falchi et al. 2016).

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

<sup>\*</sup> Released on May, 11th, 2023

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Bernardi, M., Nichol, R. C., Sheth, R. K., Miller, C. J., & Brinkmann, J. 2006, AJ, 131, 1288, doi: 10.1086/499522
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