

# GAIAS is view on the metallicity of the Milky Way Galaxy

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## ABSTRACT

We presented the predictions of GAIA simulator and Hidrodynamical simulations for red clump stars in the Milky Way in order to explore the metallicity gradients in the vertical and radial scale on the galactic disk.

**Key words:** quasars: point objects – surveys – variability.

## 1 INTRODUCTION

## 2 THE DATA

### 2.1 GOG:

### 2.2 Test particle simulation

## 3 SPH SIMULATION

We also use the SPH simulation made by (Daisuke et al. ) in which a Milky Way galaxy.

### 3.1 Simulation parameters

This simulation have  $10^3$  particles... Initial conditions etc.. Extinction model

## 4 RESULTS AND CONCLUSSIONS

We assume that all stars in the simulation are Red Clump stars with  $M_v = 1.274$ . Gaia is field of view would be constrained to  $v < 16.5$  (check this it could be larger), this field is illustrated in Fig. ??

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