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## **The distribution of stellar mass in galaxy clusters over cosmic time**

Burg, R.F.J. van der

### **Citation**

Burg, R. F. J. van der. (2014, May 14). *The distribution of stellar mass in galaxy clusters over cosmic time*. Retrieved from <https://hdl.handle.net/1887/25769>

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**Author:** Burg, Remco Fanciscus Johannes van der

**Title:** The distribution of stellar mass in galaxy clusters over cosmic time

**Issue Date:** 2014-05-14

# **The Distribution of Stellar Mass in Galaxy Clusters over Cosmic Time**

Proefschrift

ter verkrijging van  
de graad van Doctor aan de Universiteit Leiden,  
op gezag van Rector Magnificus prof. mr. C.J.J.M. Stolker,  
volgens besluit van het College voor Promoties  
te verdedigen op woensdag 14 mei 2014  
klokke 10:00 uur

door

Remco F.J. van der Burg  
geboren te Leiderdorp  
in 1986

Promotiecommissie

Promotor: Prof. dr. Koenraad Kuijken  
Co-Promotor: Dr. Henk Hoekstra

Overige leden: Prof. dr. Michael Balogh (U. Waterloo)  
Prof. dr. Marijn Franx  
Prof. dr. Huub Röttgering  
Prof. dr. Joop Schaye

*"Do not follow where the path may lead...  
Go instead where there is no path, and leave a trail."*  
- Muriel Strode

The cover shows a cluster-scale overdensity in the Millennium simulation at redshift  $z=1.4$  (back cover), and at redshift  $z=0$  (front cover).

Credit: Springel et al. (Virgo Consortium)  
and the Max-Planck-Institute for Astrophysics.

The colour images show observations of cluster SpARCS-1613 at  $z=0.87$  (back), and cluster Abell655 at  $z=0.13$  (front), which are central to the work in this thesis.

Cover design: Remco F.J. van der Burg  
Cover lay-out: Suzanne Taylor Muzzin

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