

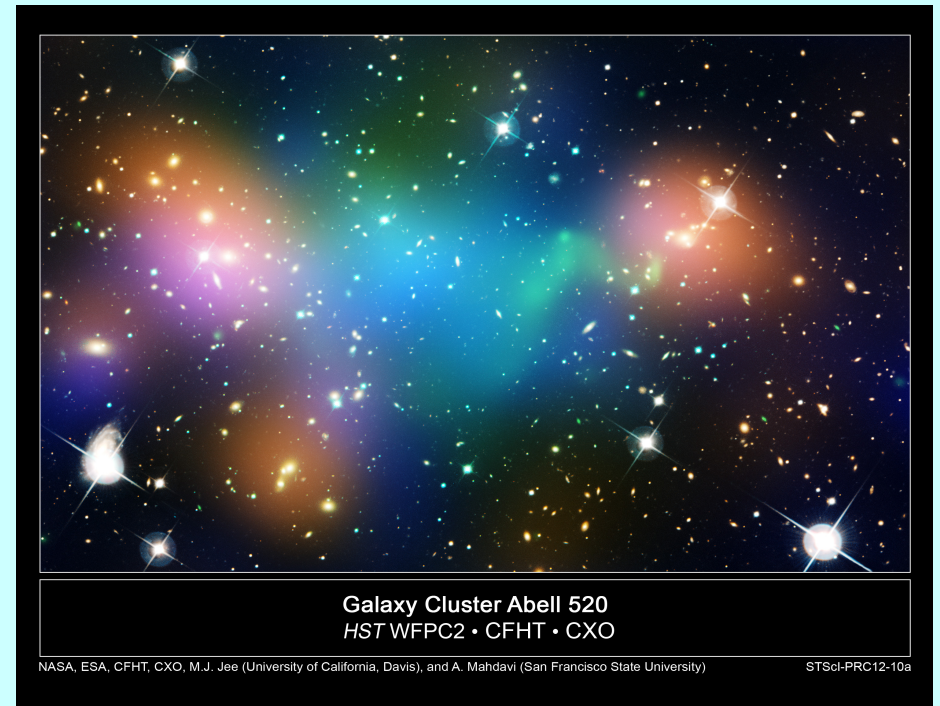
Did this affect the passengers?



Boris Deshev
Tartu Observatory, Estonia

Or

**Effects of
dynamic environment
on galaxy evolution**



21.Sept.2017, Birmingham

Alexis Finoguenov - Helsinki University, Finland
Miguel Verdugo - Vienna Observatory, Austria
Bodo Ziegler - Vienna Observatory, Austria
Chris Haines - Osservatorio Astronomico di Brera, Italy
Ho Seong Hwang - KIAS, Korea
Changbom Park - KIAS, Korea
Peter Kamphuis - NCRA-TIFR, India
Antti Tamm - Tartu Observatory, Estonia
Maret Einasto - Tartu Observatory, Estonia

www.to.ee

based on:

Deshev et al. 2017
arXiv:1707.03208



Merging clusters do:

Trigger star formation

Miller & Owen 2003

Ferrari et al. 2005

Owen et al. 2005

Hwang & Lee 2009

Stroe et al. 2015,2016

Quench star formation

Poggianti et al. 2004

Deshev et al. 2017

Do nothing

Chung et al. 2010

Kleiner et al. 2014



A520

$$z = 0.201$$

$$\sigma_v = 1036 \text{ km s}^{-1}$$

$$M_{200} = 11.6 \times 10^{14} M_{\odot}$$

Abell richness class = 1
(Abell+1989)

BHOM (Ebeling+2011)

$$L_{X(0.1-2.4 \text{ keV})} = 14.2 \times 10^{44} \text{ erg s}^{-1}$$

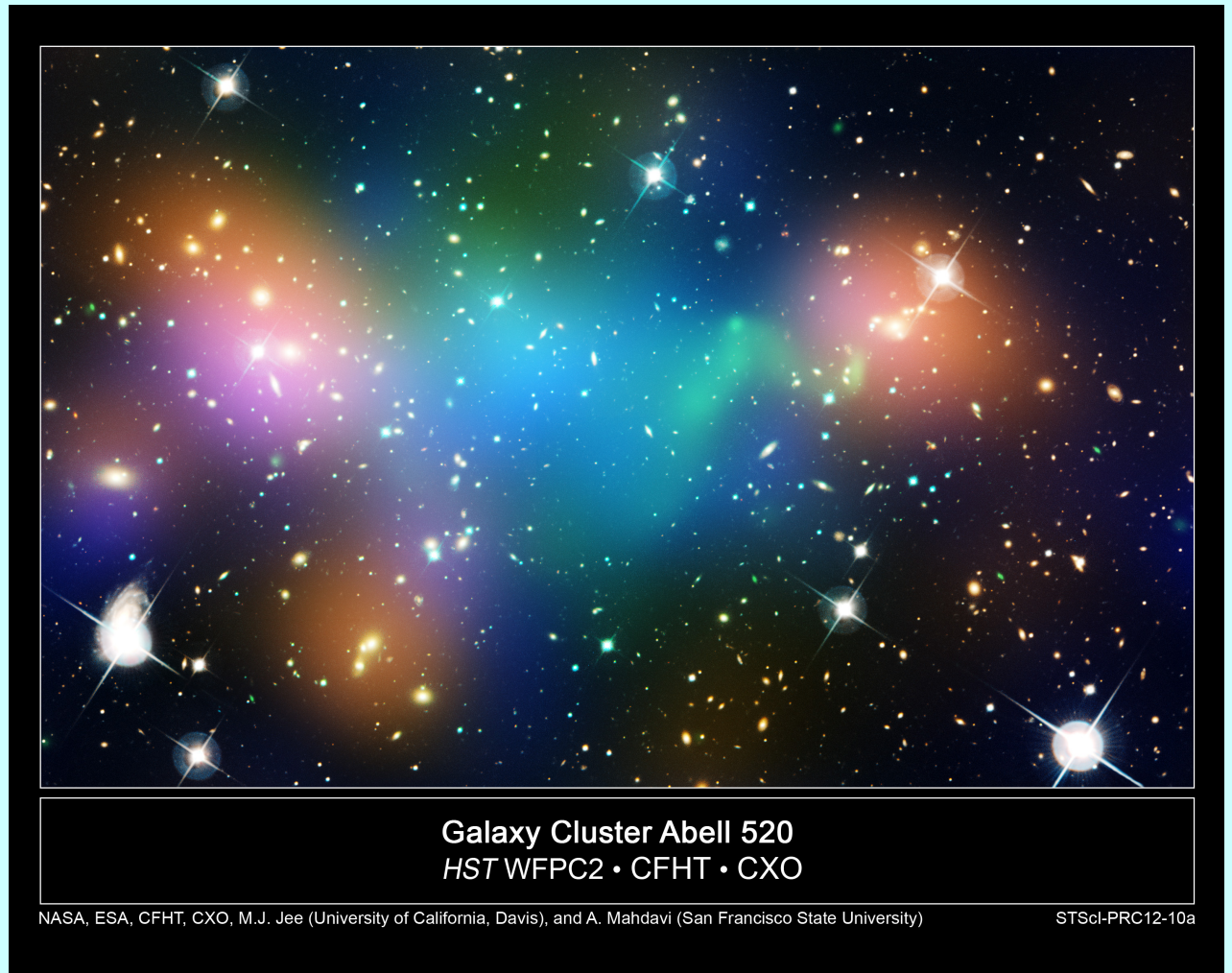
(Ebeling+1996)

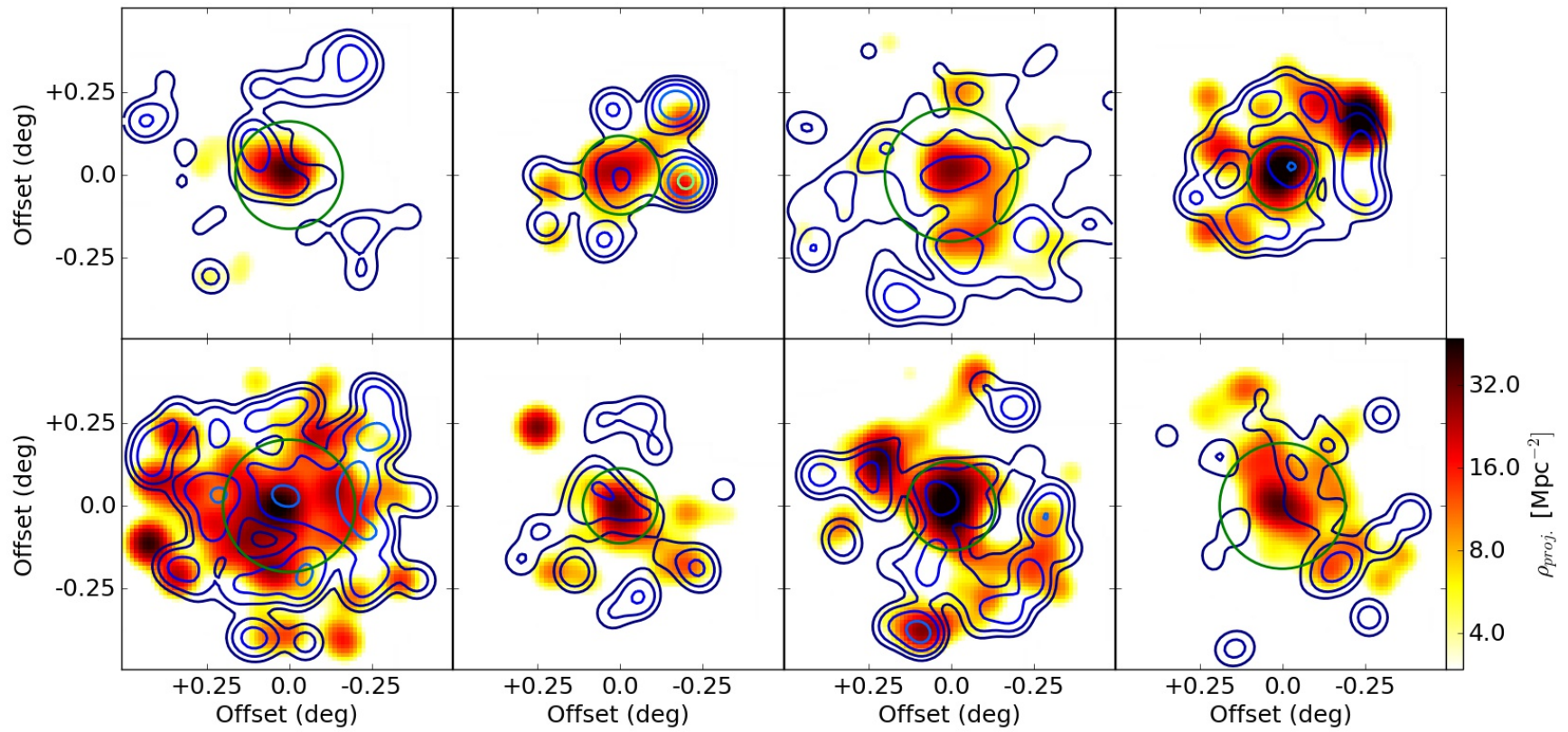
$$V = \sim 2300 \text{ km s}^{-1}$$

(Markevitch+2005)

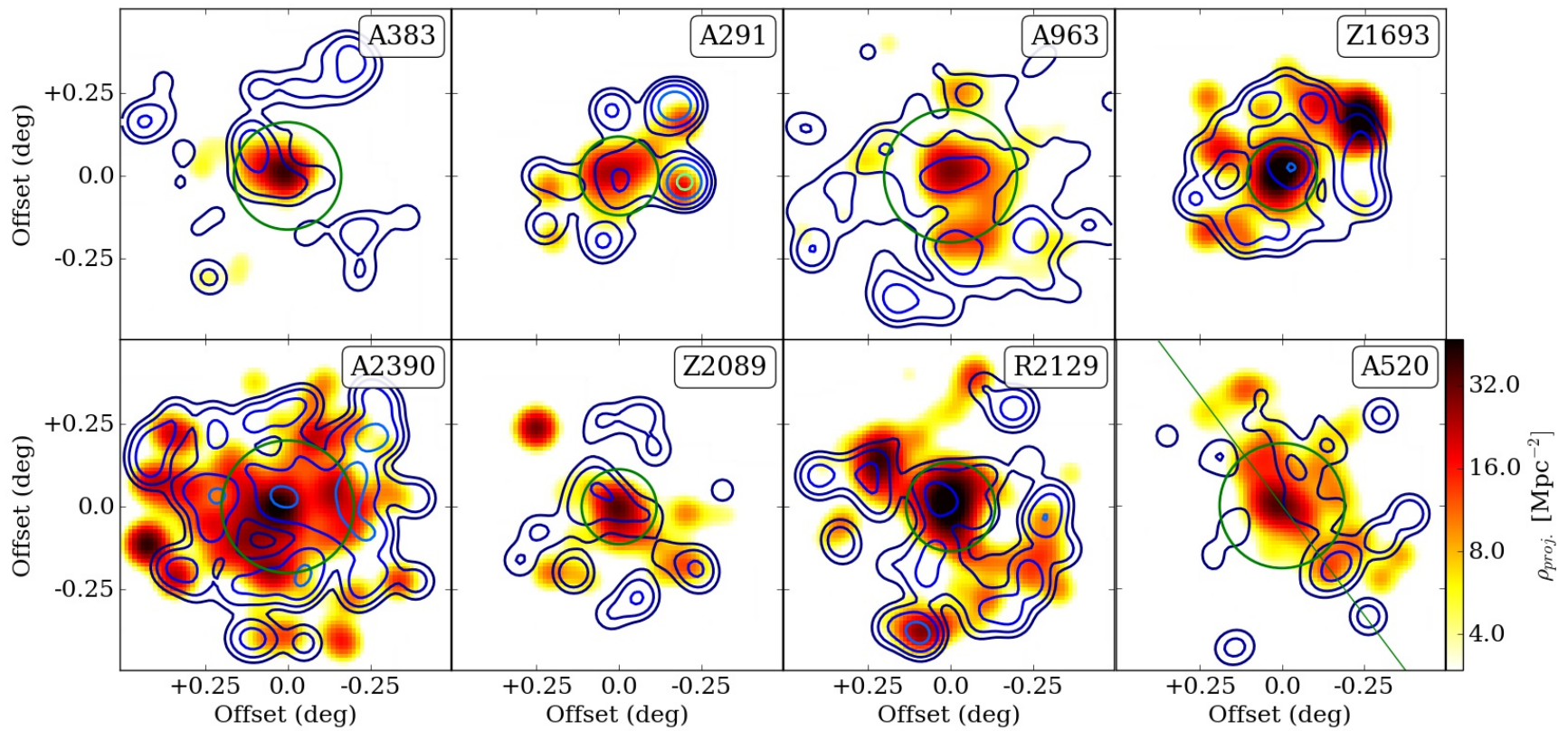
$$t = 0.2 - 0.4 \text{ Gyr}$$

(Deshev+2017)





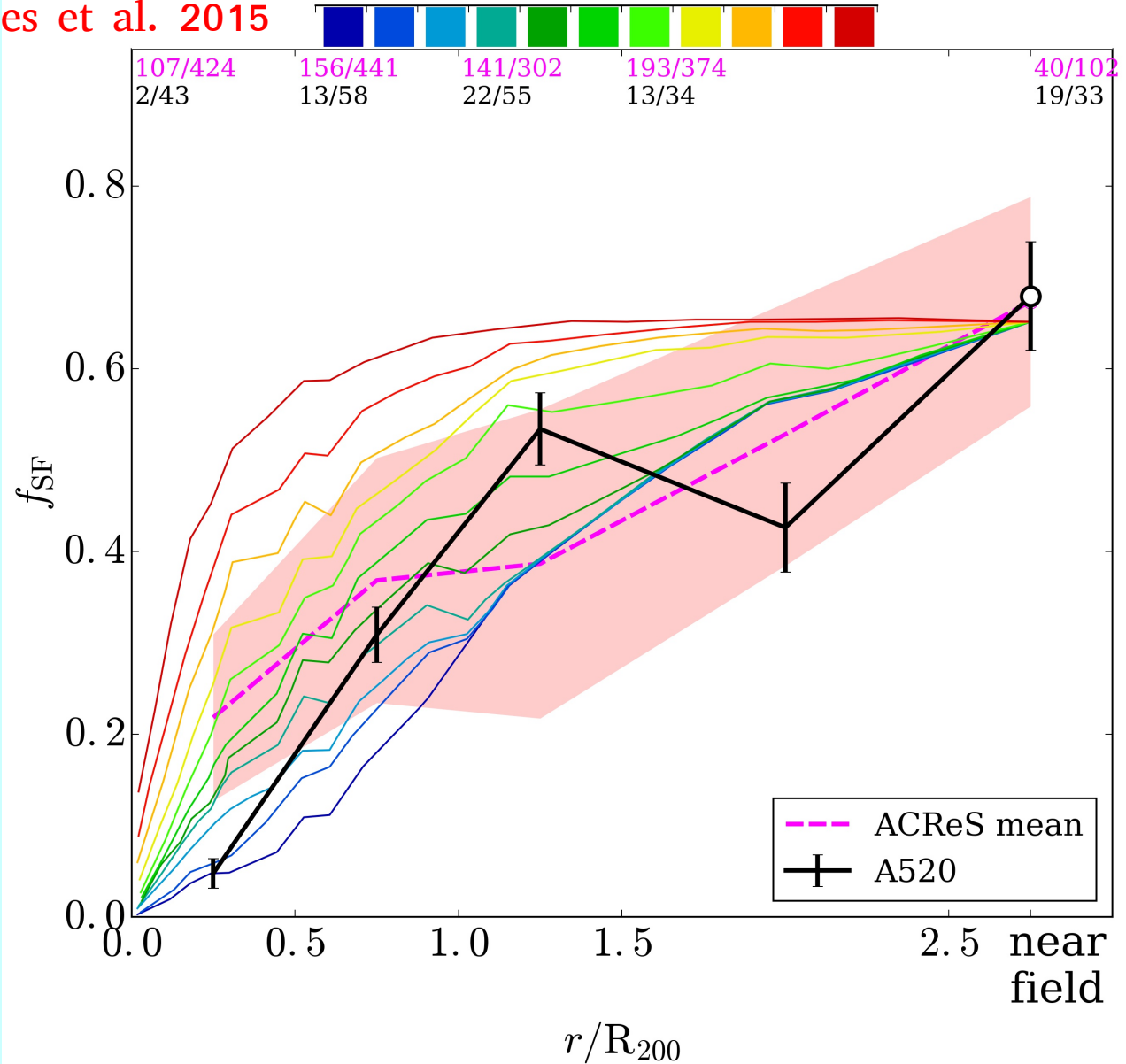
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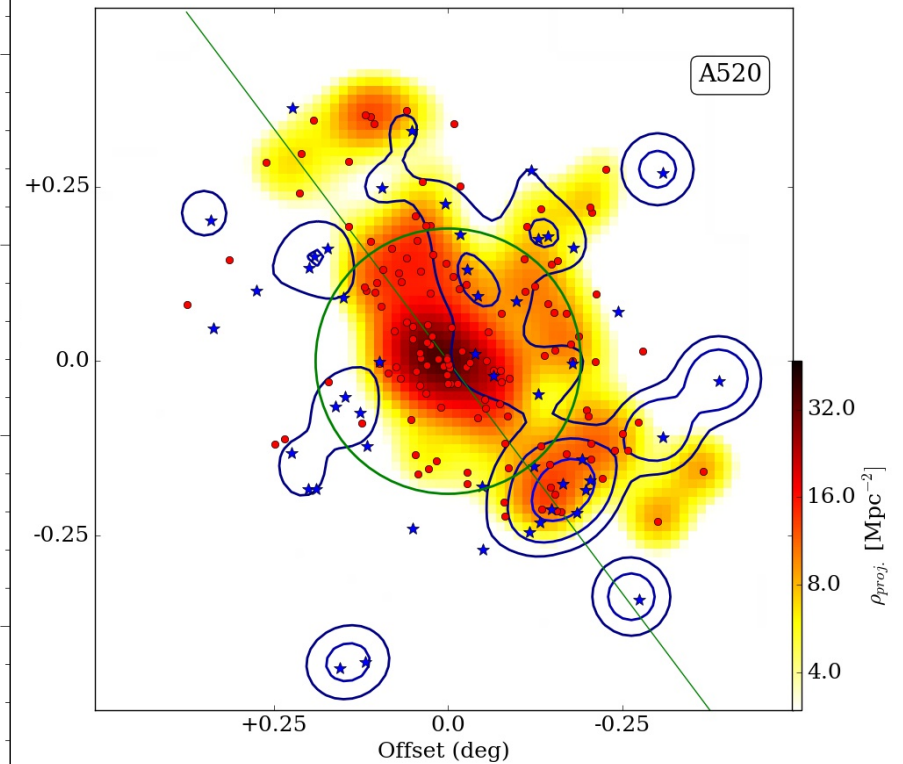
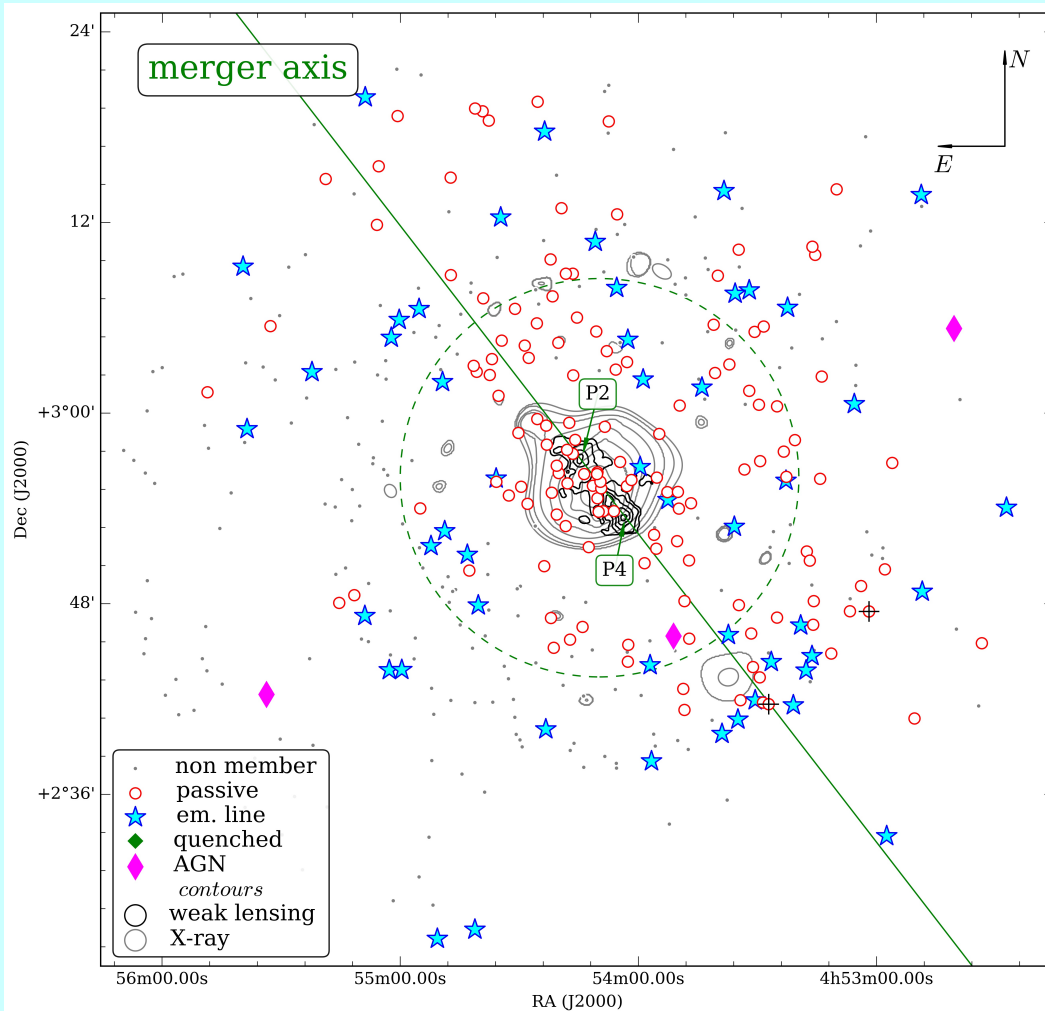
Delay between accretion into cluster and SF quenching [Gyr]

Haines et al. 2015

0.00 0.35 0.70 1.06 1.43 2.17 2.93 3.68 4.42 5.48 6.47



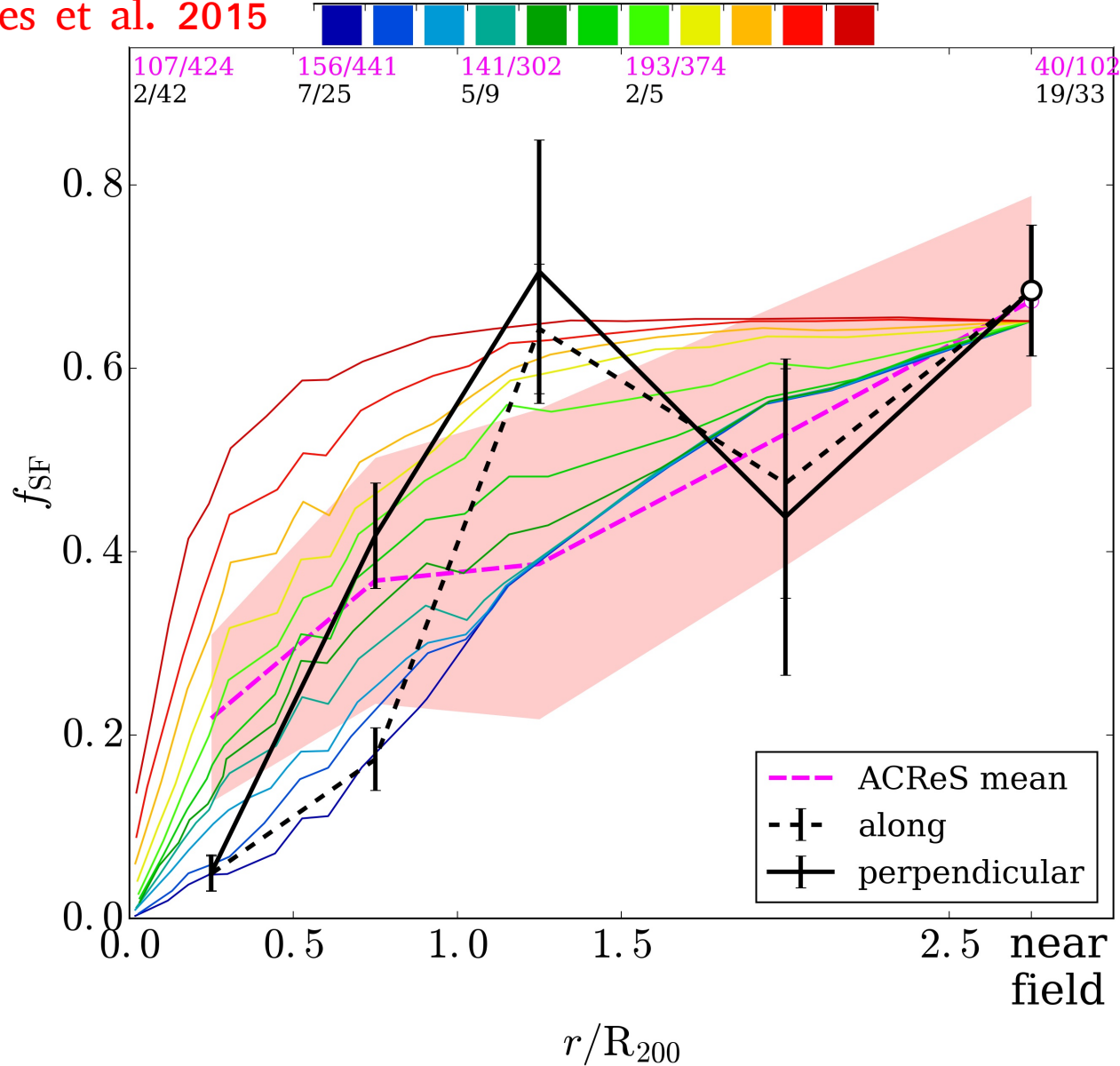
Weak lensing analysis by Jee et al. 2014

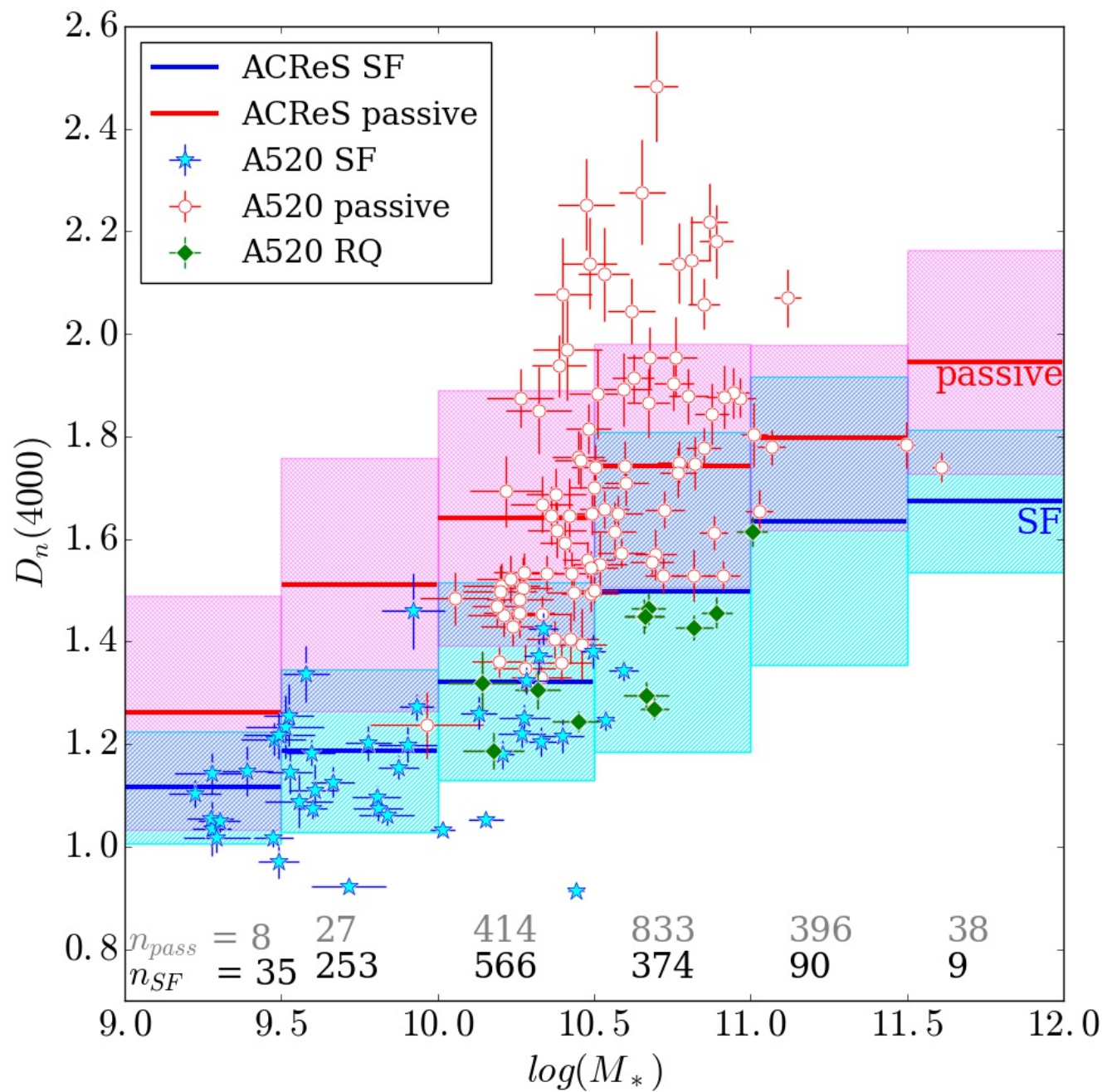


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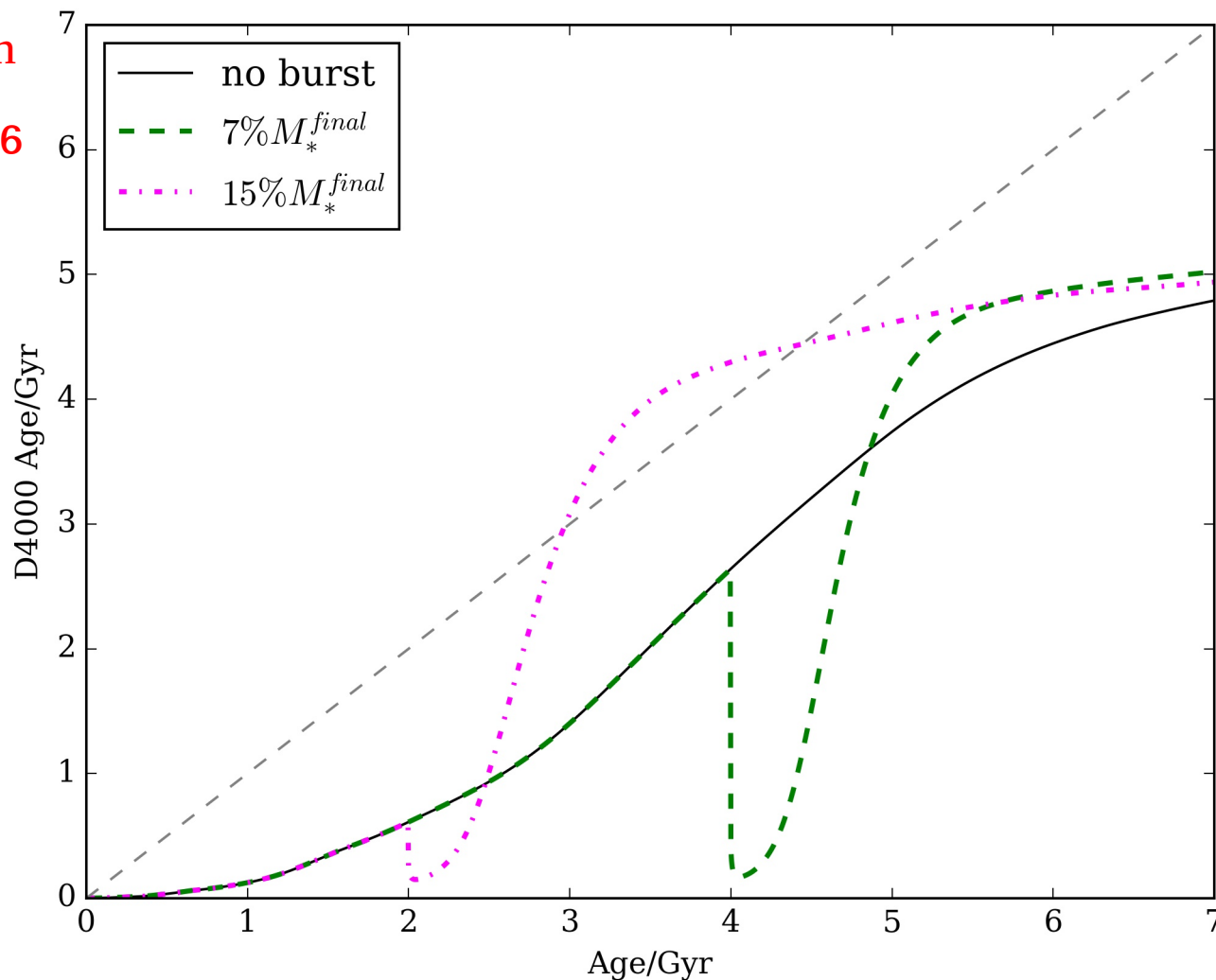
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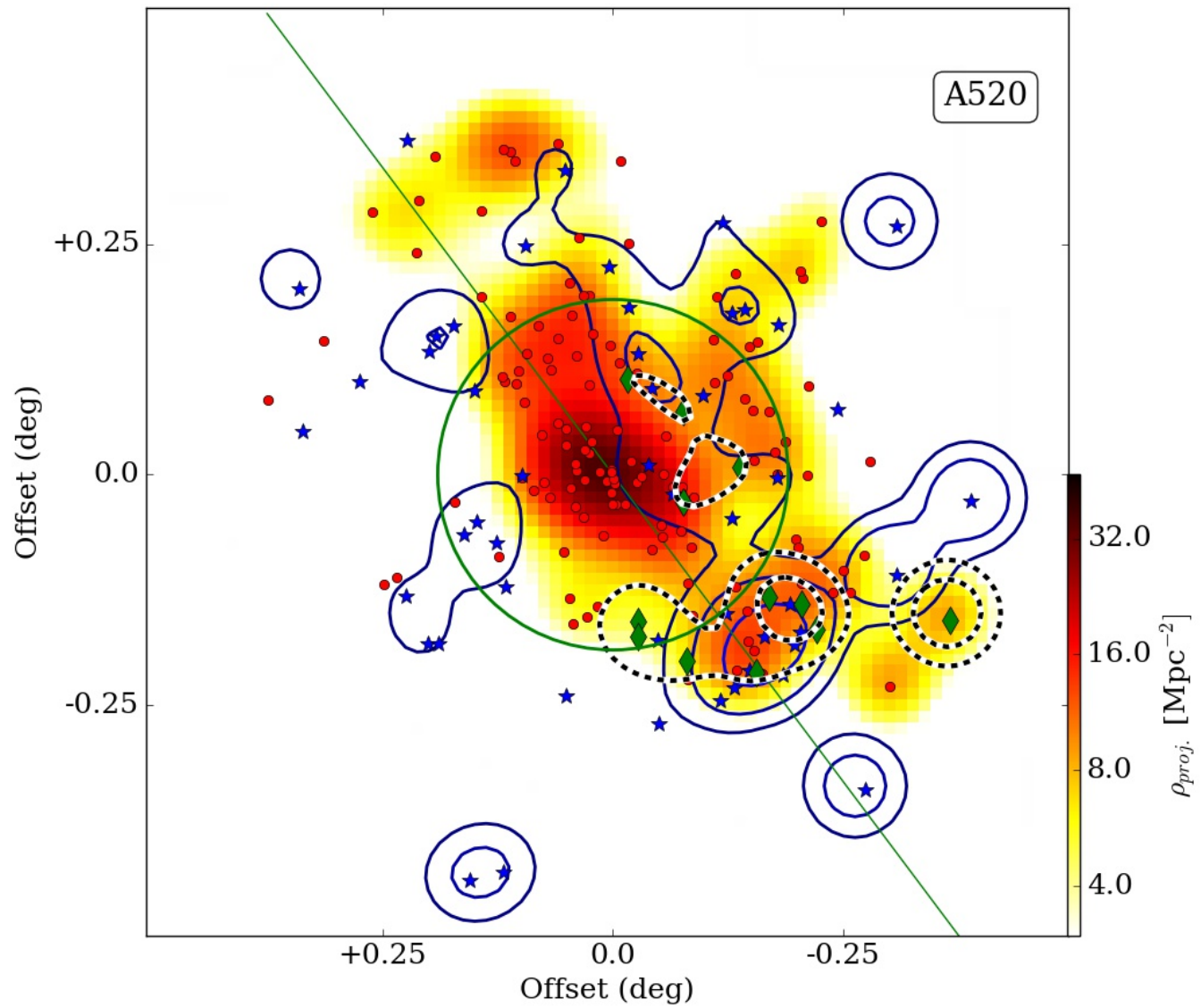


Bruzual & Charlot 2003

D4000-age calibration
from
López Fernández+2016



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THE END



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