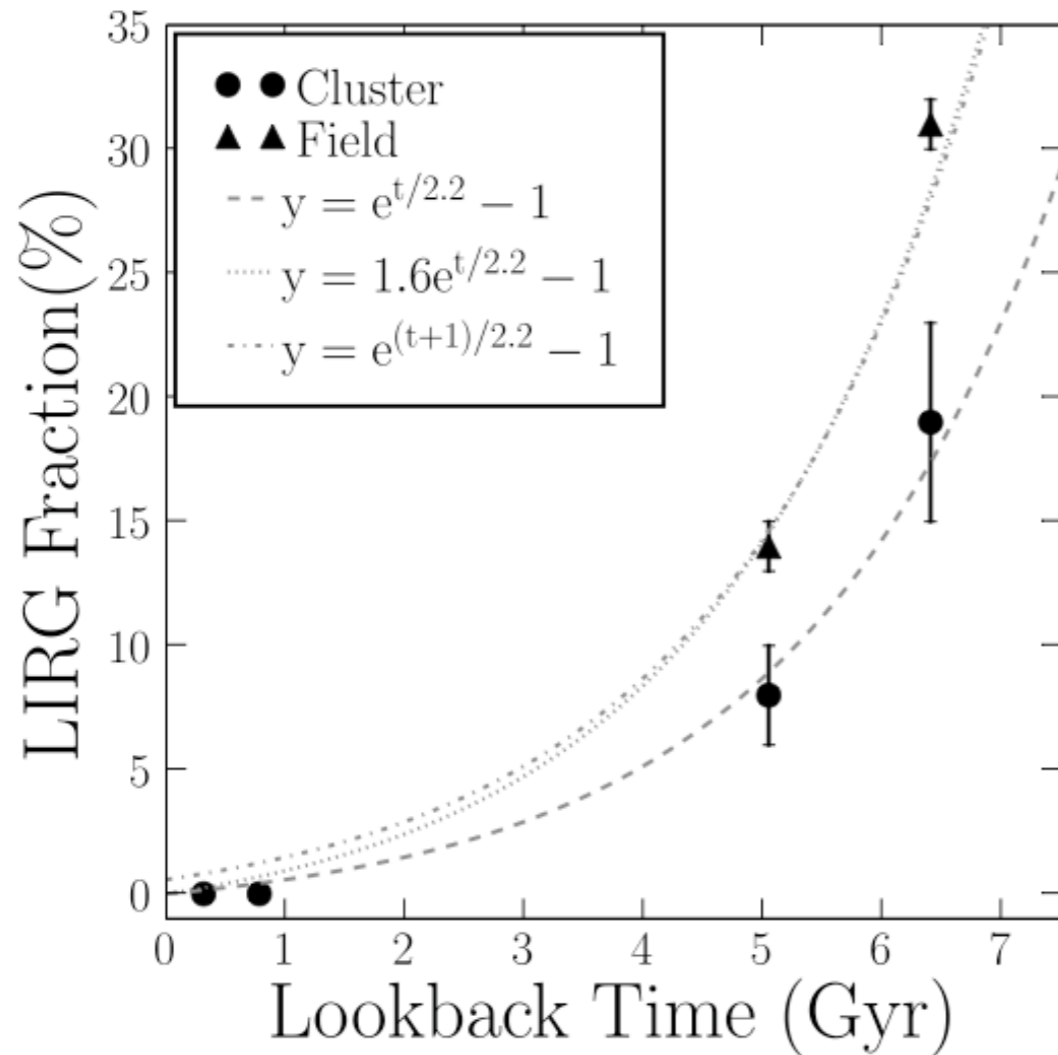


How does a galaxy cluster environment effect SF?

$z = 0$

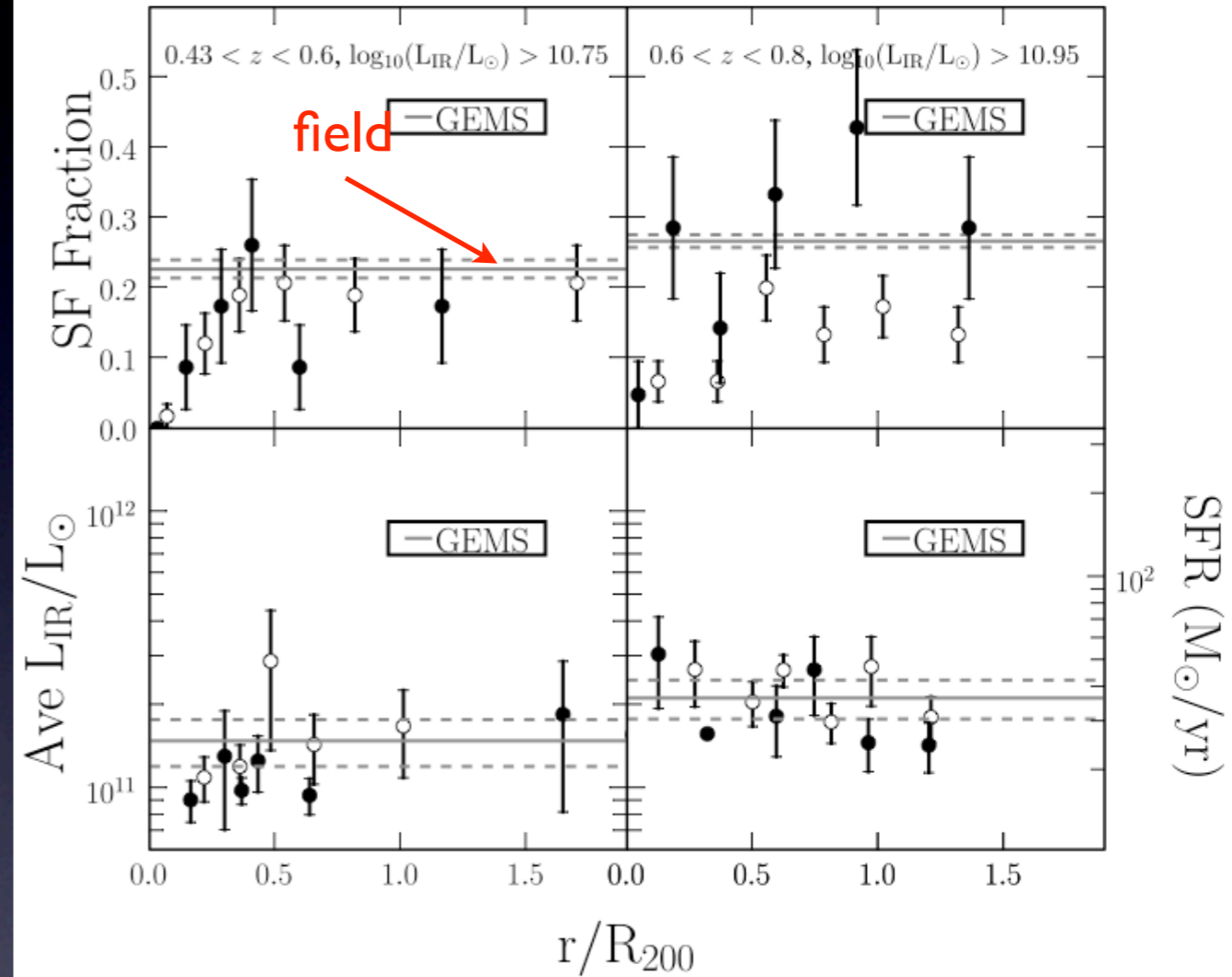
0.5

0.7



$0.4 < z < 0.6$

$0.6 < z < 0.8$



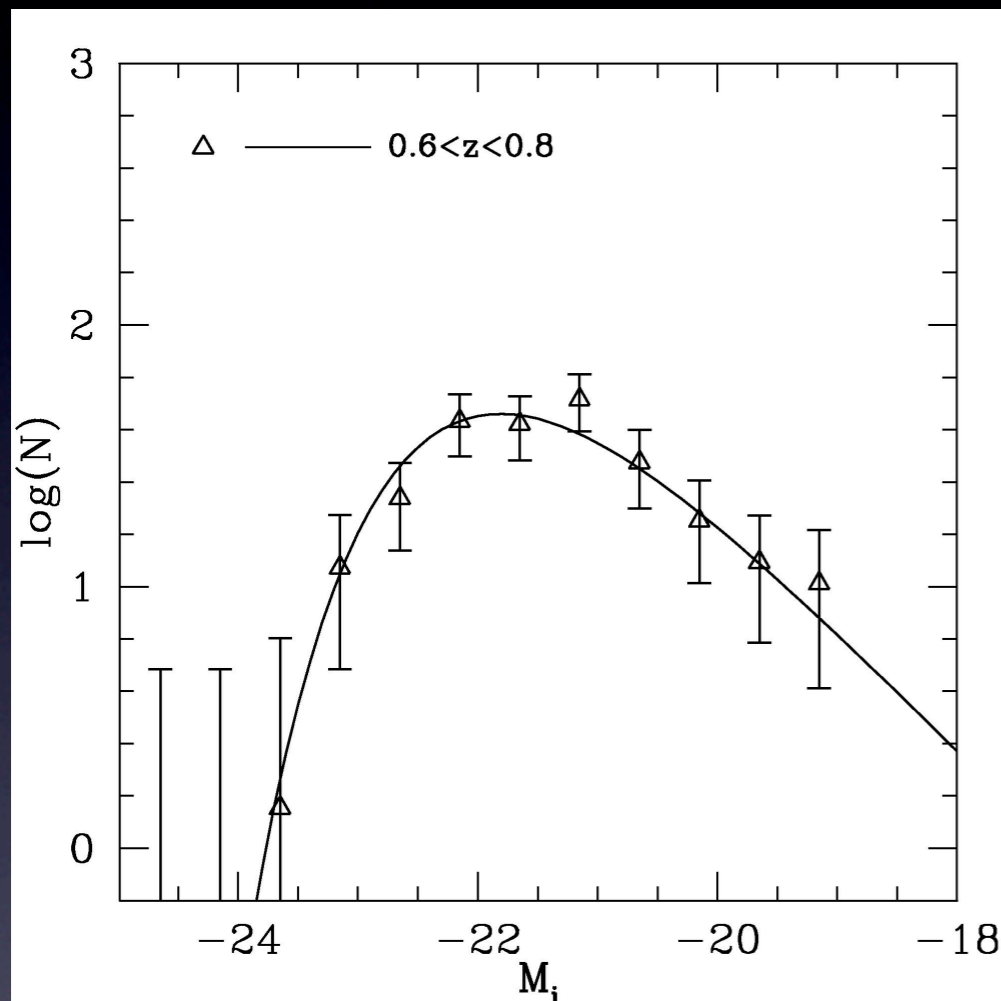
SFRs are slightly lower in clusters.

SFR for clusters declines faster (or earlier) than in the field.

Finn, Desai, &
Rudnick et al.
(submitted)

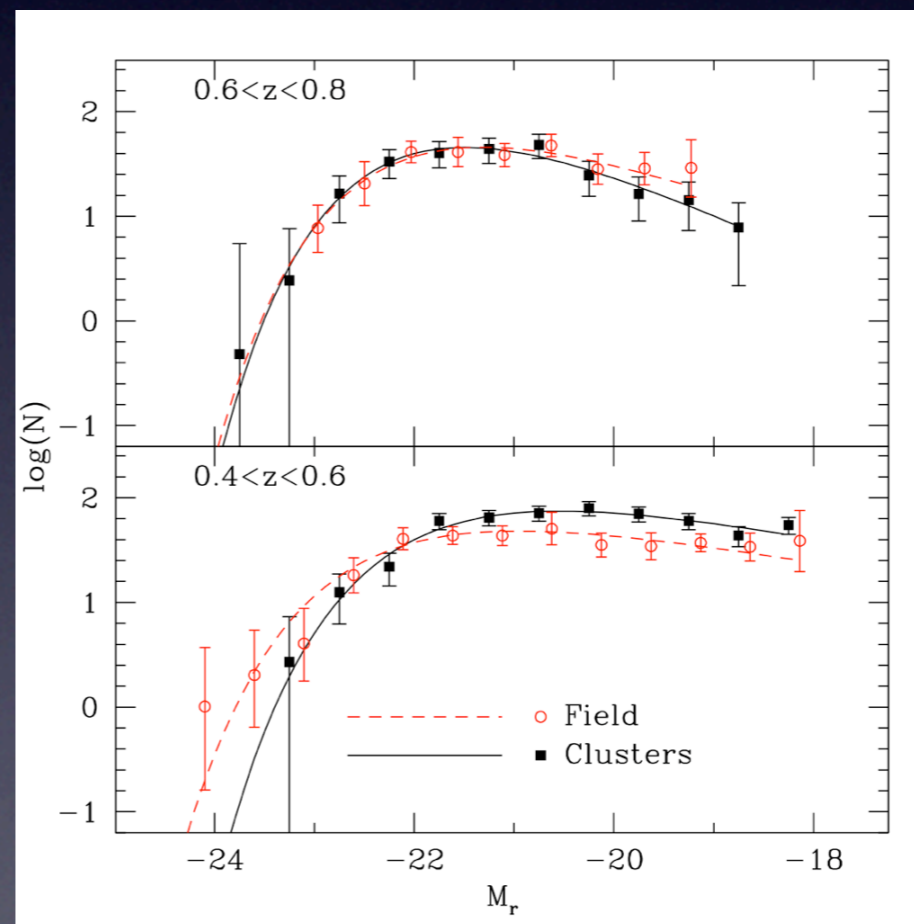
The end point of star formation truncation - the build-up of the red galaxy sequence

Luminosity and mass are well correlated for red galaxies so there is Mass/luminosity dependent evolution



bright

faint



bright

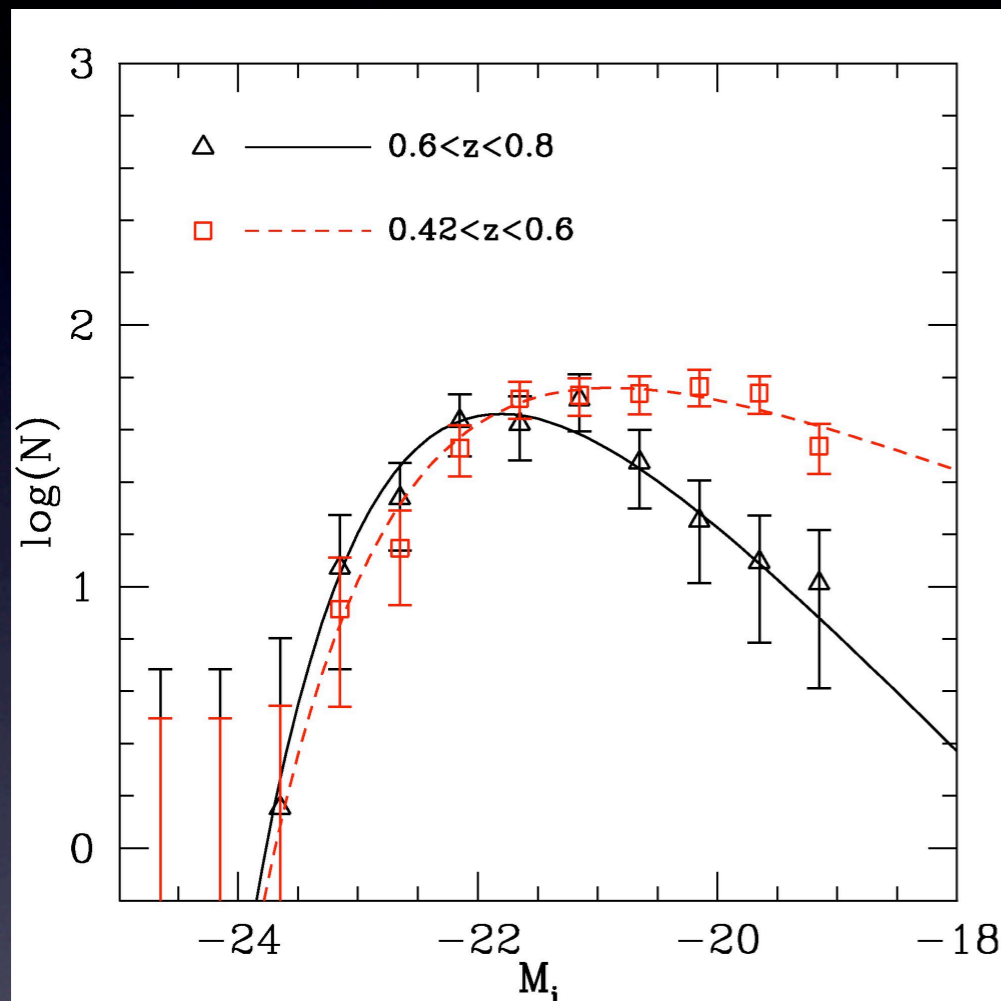
faint

Evolution is different in clusters and the field

Rudnick et al. (2009)

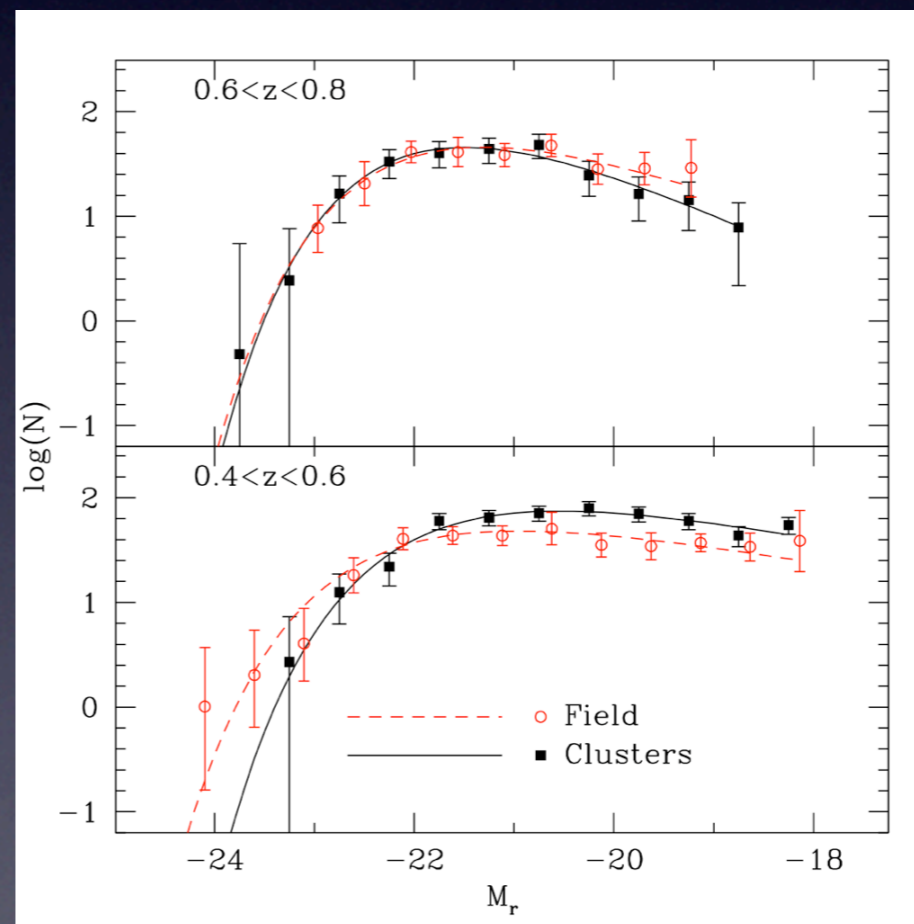
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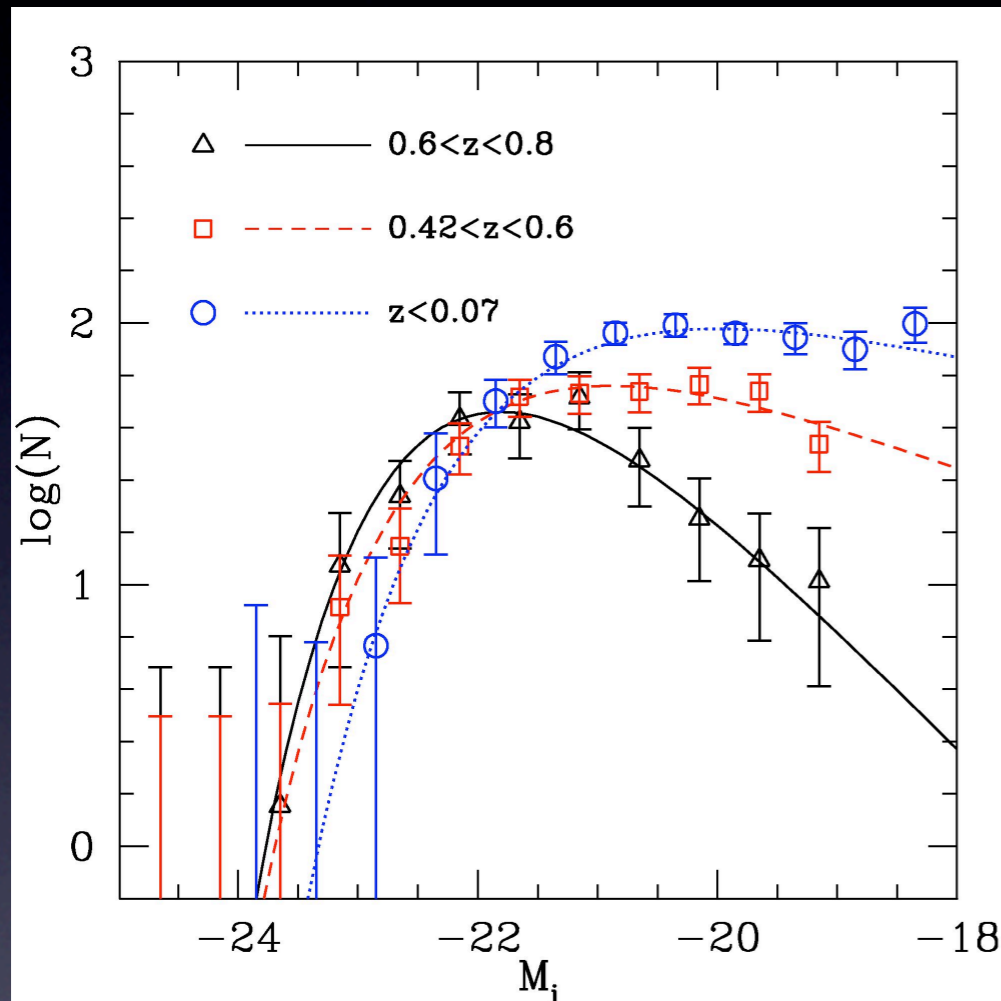
faint

Evolution is different in clusters and the field

Rudnick et al. (2009)

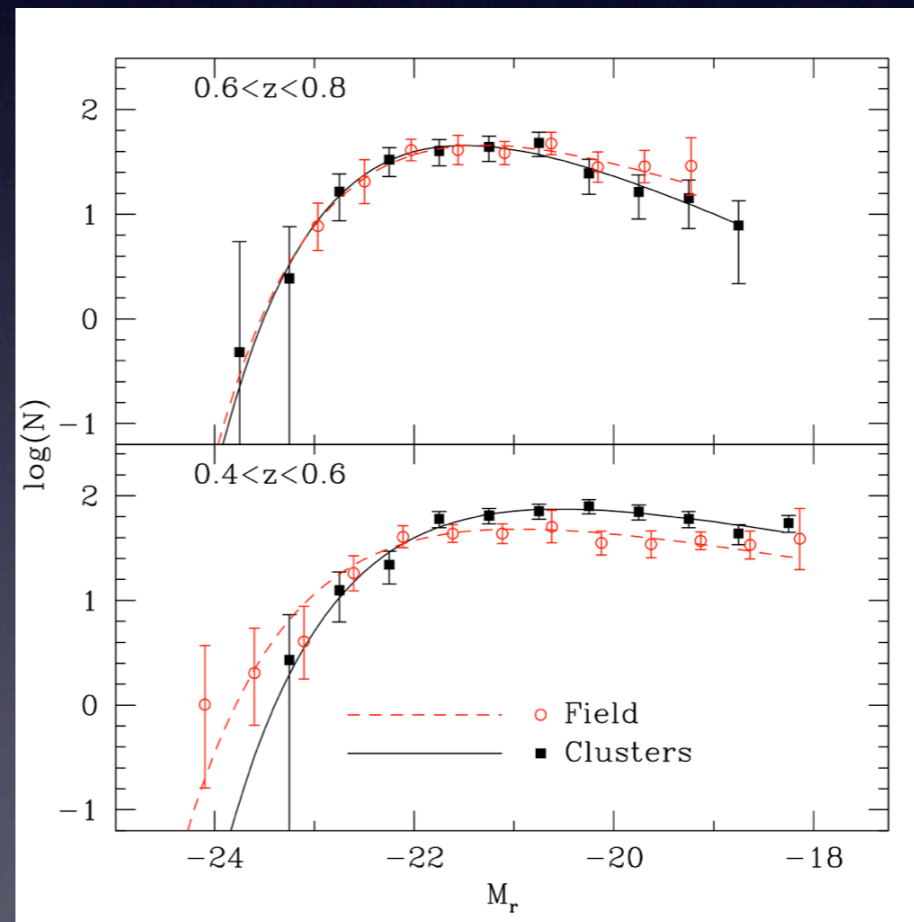
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bright

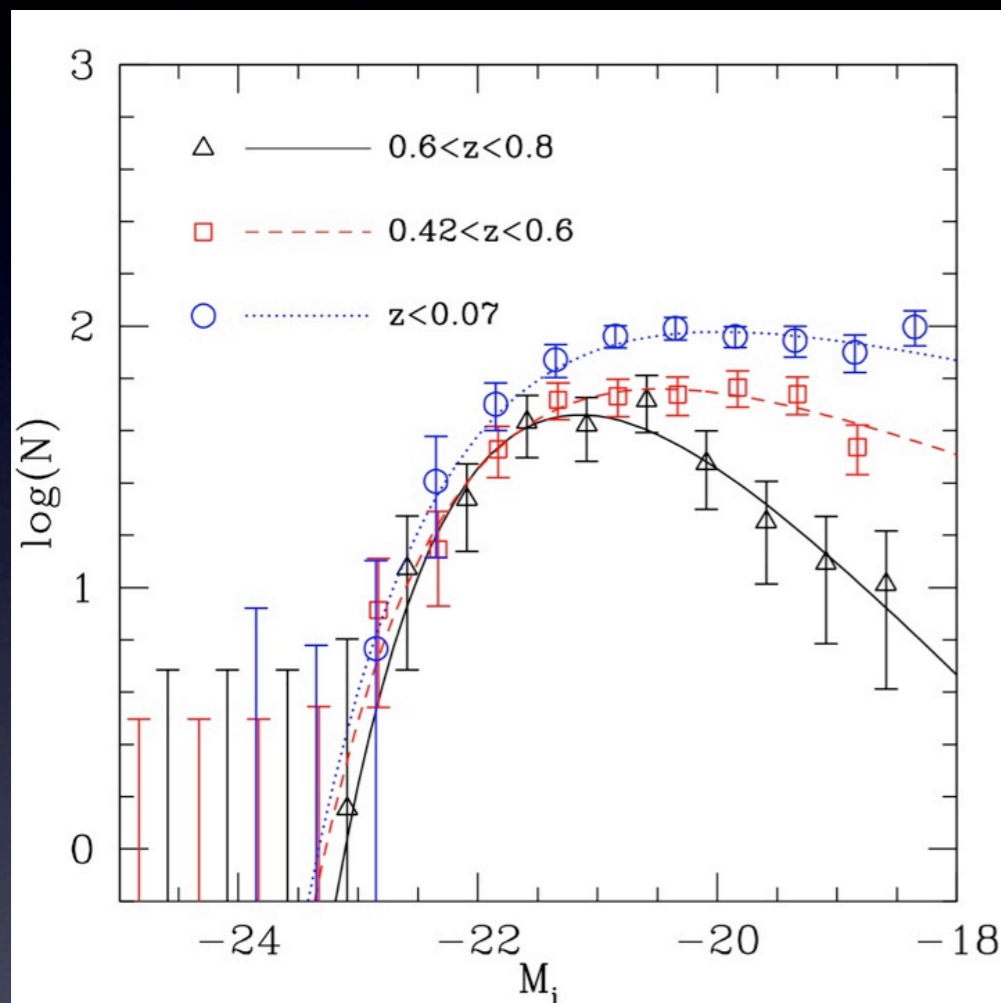
faint

Evolution is different in clusters and the field

Rudnick et al. (2009)

The end point of star formation truncation - the build-up of the red galaxy sequence

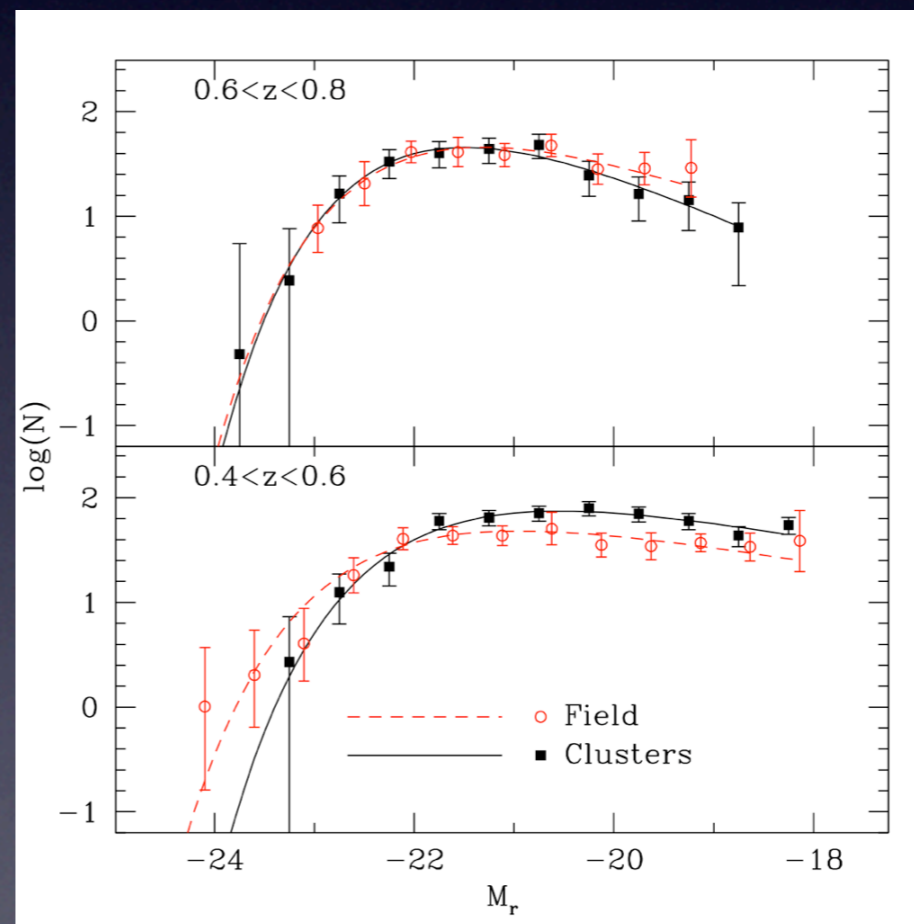
Passive Evolution Corrected



bright

faint

Luminosity and mass are well correlated for red galaxies so there is Mass/luminosity dependent evolution



bright

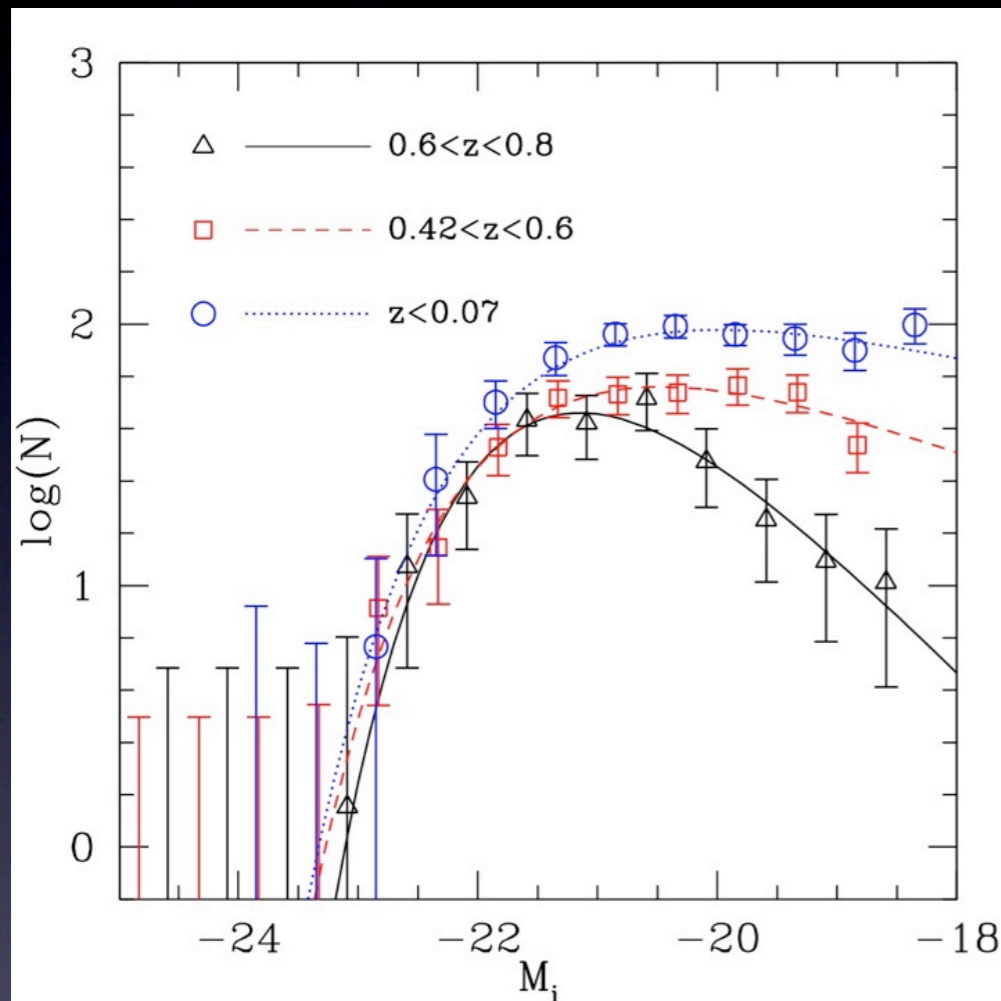
faint

Evolution is different in clusters and the field

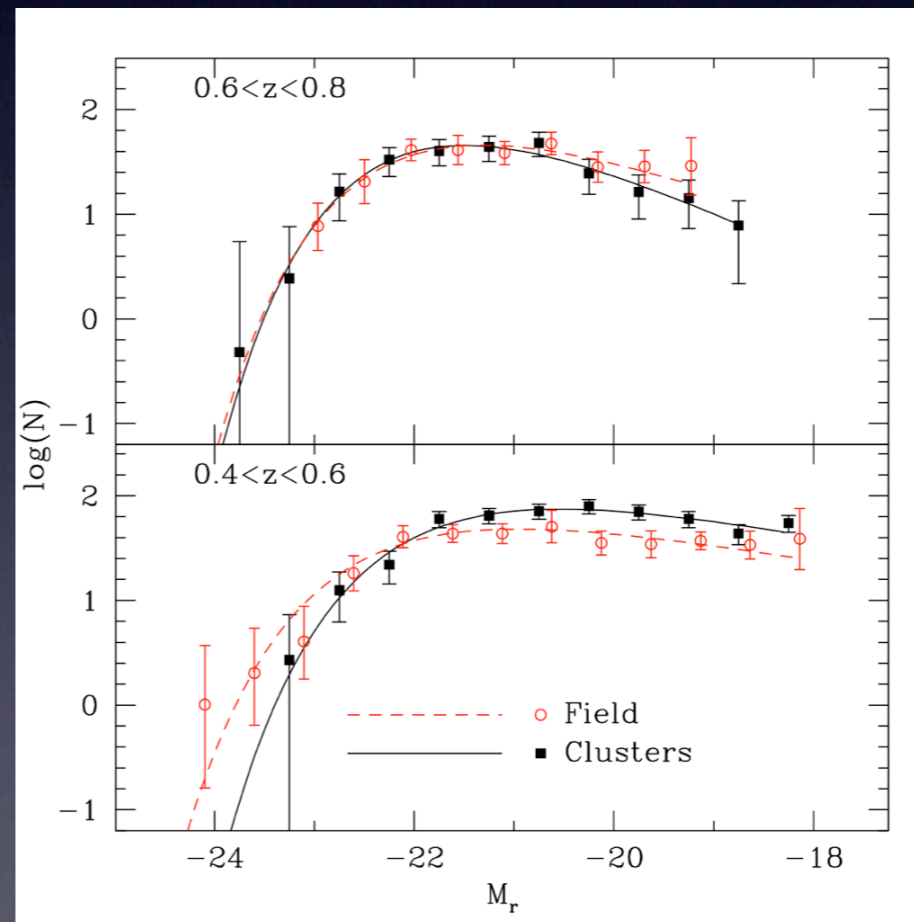
Rudnick et al. (2009)

The end point of star formation truncation - the build-up of the red galaxy sequence

Passive Evolution Corrected



Luminosity and mass are well correlated for red galaxies so there is Mass/luminosity dependent evolution



bright

faint

Clusters truncate star formation at different rates than the field.

And most effectively for low-mass galaxies.

Evolution is different in clusters and the field

bright

faint

Rudnick et al. (2009)