

$$f_* = M_*/M(r/r_{200})$$

0.1

a)

$$f^*(r/r_{200})$$

$$\begin{array}{ll} 6 \leq N \leq 8 & \text{red squares} \\ 9 \leq N \leq 25 & \text{green circles} \\ 26 \leq N \leq 220 & \text{blue triangles} \end{array}$$

0.01

 $f_{*,\text{cosmic}}$

0.1

1

10

$$r/r_{200}$$

