

A cosmological context for compact massive galaxies

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The stellar mass and half
mass radius of NGC1277,
from Trujillo et al. (2014):

$$M_{\star} = 1.2 \pm 0.4 \times 10^{11} M_{\odot}$$

$$r_e = 1.2 \pm 0.1 \text{ kpc}$$

From abundance-matching, we would
expect galaxies with this stellar mass to
be found in structures in about this mass
range

and, to be as compact as
NGC1277, we would expect them
to be highly centrally concentrated

