[Galaxy Stellar Hass Function] Weigel + 2016

* The 1/Vmax Technique (Schmidt 1968)
weight each object by the maximum volume it could be detected in.

To estimate the number dousity of we bin in stellar mass:

$$\oint_{j} d \log M = \sum_{i}^{N_{bin}} \frac{\omega_{spec, i}}{V_{max, i}}$$

Wspec, = spectroscopic completeress

 $V_{\text{max},i} = \frac{4\pi}{3} \frac{\Omega^{s}}{\Omega^{\text{shy}}} \cdot \left(d_{c} \left(2_{\text{max},i} \right)^{3} - d_{c} \left(2_{\text{min},i} \right)^{3} \right)$

(Mogg 1999).

 $\Omega^{\text{SNY}} = 41253 \text{ deg}^2 = \text{Surface area of outine sky}$ $\Omega^{5} \equiv \text{survey} \text{ area covered by our sample}$ $Q_c(z)$ = comoving distance at redshift z

- Zmin, = lower redshift limit of sample.

- $Z_{\text{max},i} = Min \left(Z_{\text{max}}^{s}, Z_{\text{max},i}^{\text{mass}} \right)$

Zmax = maximum Z of saugle.
Zmax, i = maximum Z for object i

(Pozzeti nethod).

Sherman + 2019.

first - bin in réachift.

second - bin in mass.

If Zmax < Zmin :

Vmax = min (Vmax (0, Zmax), Vmax (Zmn, Zmax))

@ Enor calculation

For large N; Josep and Josep approach the Qunit:

Sherman + 2019 -> Poisson enors.