With a bit if work...

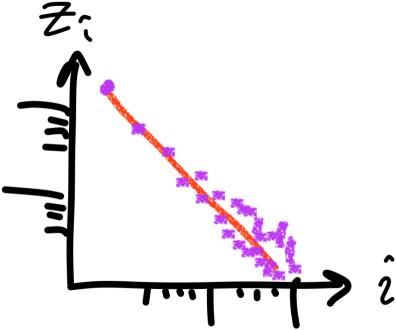
$$E[Z_i] = \frac{4NM}{2}$$

(for constant N) $i=1,2,...,n-1$

$$\log Z_i = \log \left(\frac{4Nu}{i}\right)$$

$$= \log 4Nu - \log i$$

Theory: sample frequency spectrum (SFS)



Question: what happens to SFS if N(t) is charging?

MA t

Theory: sample frequency spectrum (SFS)

SFS: histogram of motant allele frequencies

$$Z = [Z_1, Z_2, ..., Z_{n-2}], Z_i = \# \text{ motations with frequency is in sample}$$

With a bit if work...

$$E[Z_i] = \frac{4NM}{2}$$

(for constant N) $i=1,2,...,n-1$

$$|\log Z_i| = |\log \left(\frac{4Nu}{s}\right)$$

$$= |\log 4Nu| - |\log s|$$

$$\frac{2}{s}$$

$$\frac{Q_{vestion}: what happens to sersoins?}{sfs if N(t) is charping?}$$

$$NA1 + t$$

Non tree-like ancestry

Recombining genomes as mosaics

