$$T$$
 and $f:\mathcal{S}_n(T) o k$ iteration of pigeonhole principle S and $f:\mathcal{S}_n(S) o k$ stable yields

$$S$$
 and $f_{\lim}: \stackrel{
ightarrow}{\mathcal{S}_{n-1}(S)}
ightarrow k$

$$\left. egin{array}{c} \mathsf{application} & & & & \\ \mathsf{of} \; \mathrm{MTT}^{n-1} & & & & \end{array}
ight.$$

S' homogeneous for f