

$T$  and  $f : \mathcal{S}_2(T) \rightarrow k$

iteration of pi-  
geonhole principle

$S$  and  $f : \mathcal{S}_2(S) \rightarrow k$  stable

yields

$S$  and  $f_{\text{lim}} : \mathcal{S}_1(S) \rightarrow k$

application  
of MTT<sup>1</sup>

$S'$  homogeneous for  $f$