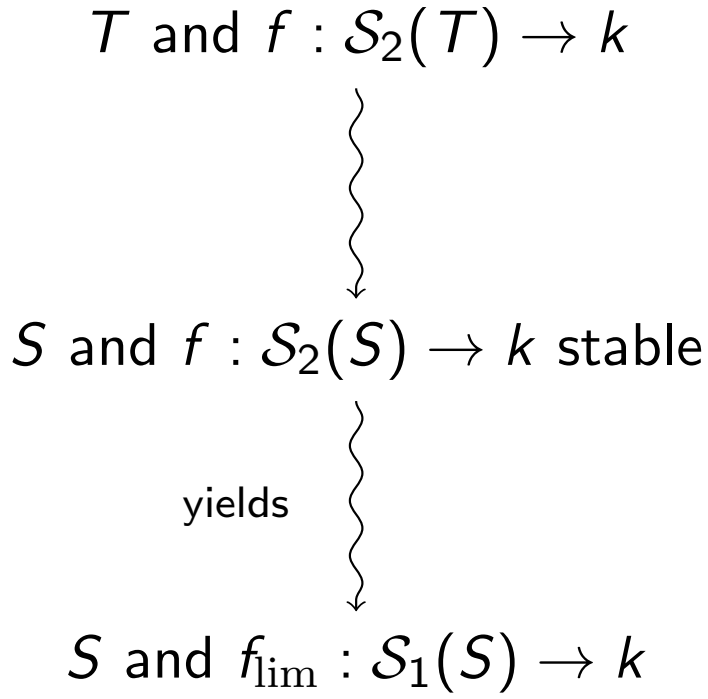
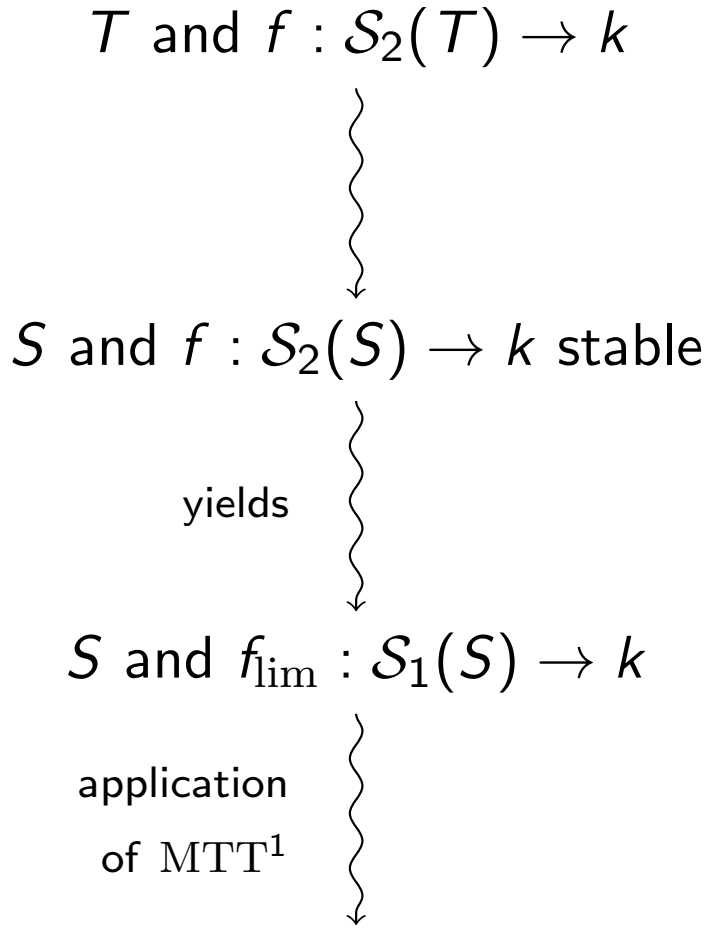
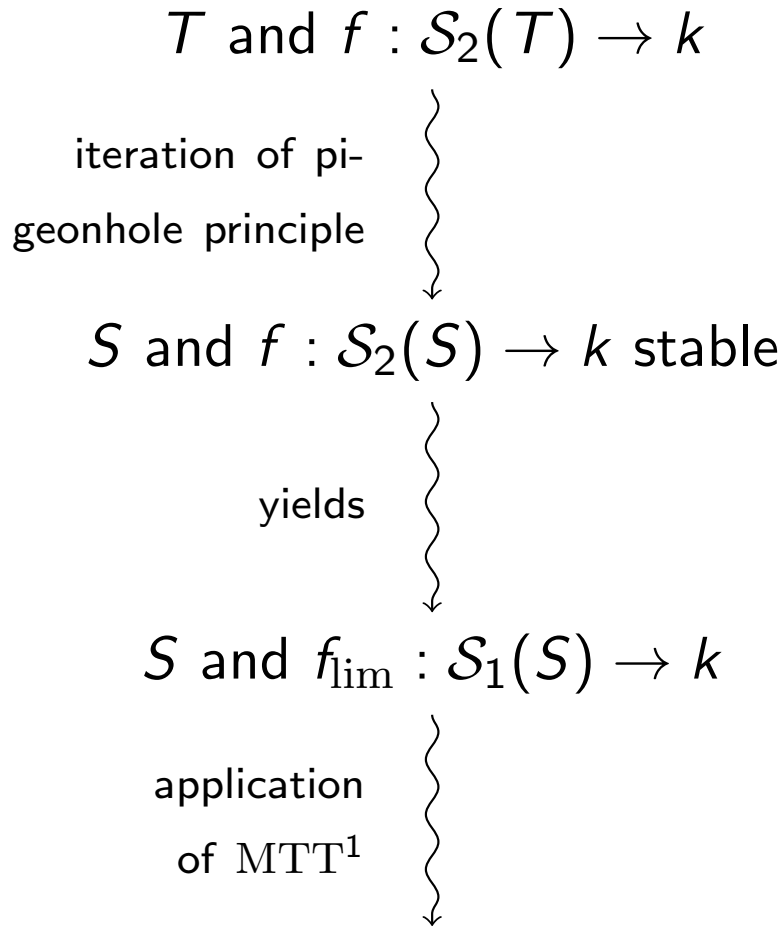
T and $f : \mathcal{S}_2(T) \to k$

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

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


T and $f : \mathcal{S}_2(T) \to k$
S and $f : \mathcal{S}_2(S) \to k$ stable
yields
S and $f_{\lim} : \mathcal{S}_1(S) \to k$


T and $f : \mathcal{S}_2(T) \to k$
S and $f : \mathcal{S}_2(S) \to k$ stable
yields
S and $f_{\lim} : \mathcal{S}_1(S) \to k$
application
of MTT^1
S' homogeneous for f


T and $f : \mathcal{S}_2(T) \to k$
iteration of pigeonhole principle
S and $f : \mathcal{S}_2(S) \to k$ stable
yields
S and $f_{\lim} : \mathcal{S}_1(S) \to k$
application of MTT^1
S' homogeneous for f