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

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

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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 pi-
geonhole 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