

interleaved_family^{4,23}

$\text{interleaved_family}(T;I;L;L_2)$
 $\equiv_{\text{def}} \exists f:(i:I \rightarrow \mathbb{N}_{<\|L(i)\|} \rightarrow \mathbb{N}_{<\|L_2\|}). \text{interleaved_family_occurrence}(T;I;L;L_2;f)$

clarification:

$\text{interleaved_family}(T;I;L;L_2)$
 $\equiv_{\text{def}} \exists f:(i:I \rightarrow \{0..\|L(i)\|^{-}\} \rightarrow \{0..\|L_2\|^{-}\}). \text{interleaved_family_occurrence}(T;I;L;L_2;f)$