There's a pre-map $E: \text{KTG} \to \text{PaT}$, defined by:

"choose a maximal tree and a cutting point, remove them yet keep the paranathetizations".

**Question** What further relations on $\text{PaT}$ will make this map well defined?

1. "Easy": change the cut-point, probably corresponds to

   ![Change Cut-Point](image)

2. "Hard": "replacement" on the maximal tree

   ![Replacement](image)
Maybe the trick (to simplify the “hard” move) is to map $E: \mathbb{K}T_6 \rightarrow \mathbb{D}_T T$, by choosing a not-necessarily-minimal tree and a cutting point.