

A New Bijection

October 11, 2005

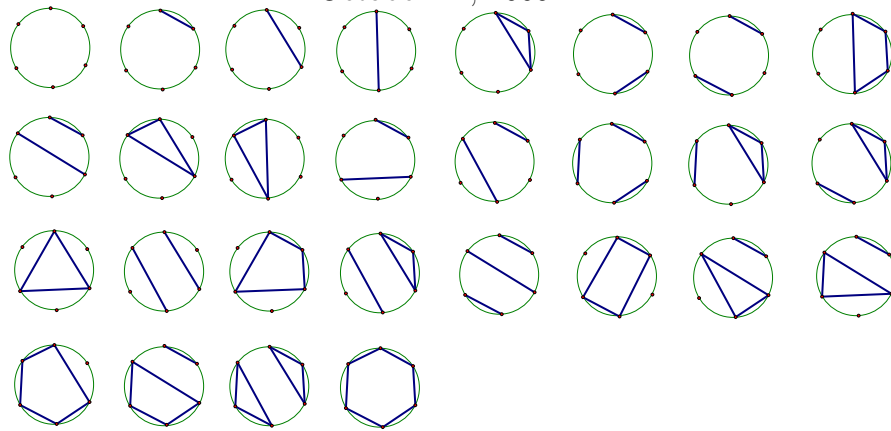


Figure 1: NC Patterns, $n=6$

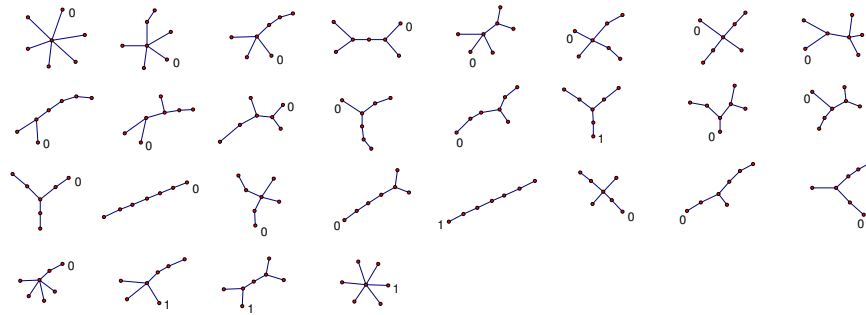


Figure 2: Bicolored 6-edge plane trees

Here is a nice bijection Dave Callan and I found. Figures 1 and 2 show the 28 bijective pairs (by geographic position) of rotationally equivalent NC partitions and bicolored plane trees with n edges for $n = 6$. To avoid clutter, only one leaf per tree displays its color. Singleton leaves are colored “0”; adjacency leaves are colored “1”.