

- Differences between  $P_T$  and  $P_{T-by-L}$ :

$$\sum_{k=1}^n \Delta_k = \Delta_1 + \Delta_2 + \Delta_3 + \dots + \Delta_n$$

Note that the bigger the value of  $\Delta_s$  is, the less similar  $PP_T$  and  $PP_L$  are.

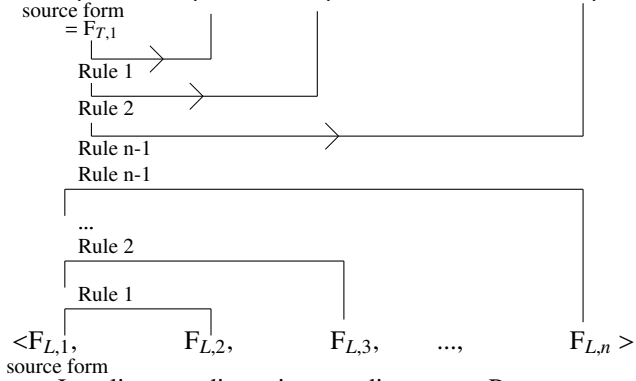
- Target paradigmatic prosodic pattern,  $P_T$ :

$\langle F_{T,1} \quad F_{T,2}, \quad F_{T,3}, \quad \dots, \quad F_{T,n} \rangle$

$\left| \begin{array}{c} \Delta_1 (= 0) \\ \Delta_2 \\ \Delta_3 \\ \dots \\ \Delta_n \end{array} \right.$

- Leveled  $P_T$  by  $P_L$ ,  $P_{T-by-L}$ :

$\langle F_{T-by-L,1}, F_{T-by-L,2}, F_{T-by-L,3}, \dots, F_{T-by-L,n} \rangle$



- Leveling paradigmatic prosodic pattern,  $P_L$

Figure 1: Four-place analogy of derivational rules from leveling prosodic pattern to target prosodic pattern