1st order path

2nd order paths

3rd order paths

 $\sum w_i = 1 , \sum_{i \neq j} w_i w_j = \frac{1}{2}$ $\sum w_i = 1$

 $\sum w_i = 1$, $\sum_{i \neq j} w_i w_j = \frac{1}{2}$



