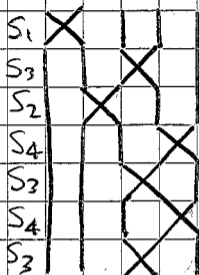


$$4\ 2\ 3\ 1\ 5 = WSW^{-1}$$

$$(W_3 W_4) = (14)$$

In S_n ,

(reflections) = (transpositions)



$$W = S_3 S_4 S_3 S_4 S_2 S_3 S_1$$

$$= 5\ 1\ 3\ 2\ 4$$

$$\text{Sgn}(w, t) = \begin{cases} + & \text{if "uncrossed" in } w \\ - & \text{if "crossed" in } w \end{cases}$$

$$S_1 = (12)$$

$$S_1 S_3 S_1 = (34)$$

$$S_1 S_2 S_2 S_3 S_1 = (14)$$

$$(35)$$

$$(15)$$

$$(13)$$

$$(35)$$



which strands cross