$[W_n, K_{i,i}] = [W_n, H] = 0$ 

No Overlap 
$$[W_p,K_{ij}]=0$$



$$= [\sigma_2 \sigma_2, \sigma_2] = 0$$

$$[W_p, K_{ij}] = [...\sigma_1^{\alpha} \sigma_2^{\alpha} \sigma_2^{\beta} \sigma_3^{\beta} \sigma_3^{\gamma} \sigma_4^{\gamma} ..., \sigma_2^{\beta} \sigma_3^{\beta}]$$

$$= [\sigma_2^{\gamma} \sigma_3^{\alpha}, \sigma_2^{\beta} \sigma_3^{\beta}] = 0$$