

$$R_{i_ , j_} := \text{Sum} [W_i [\alpha, m []] W_j [\beta, \alpha], \{ \alpha, n \}, \{ \beta, n \}] ;$$

$$\overline{R}_{i_ , j_} := \text{Sum} [W_i [\alpha, m []] W_j [\beta, \text{inv}@ \alpha], \{ \alpha, n \}, \{ \beta, n \}] ;$$