$$p = 0: \quad \omega_{0} \quad \omega_{0} + \omega_{1} \quad \omega_{0} + \omega_{1} + \omega_{2} + \omega_{3} = \sigma$$

$$p = 1: \quad \omega_{1} \quad \omega_{1} + \omega_{0} \quad \omega_{1} + \omega_{0} + \omega_{3} + \omega_{2} = \sigma$$

$$p = 2: \quad \omega_{2} \quad \omega_{2} + \omega_{3} \quad \omega_{2} + \omega_{3} + \omega_{0} + \omega_{1} = \sigma$$

$$p = 3: \quad \omega_{3} \quad \omega_{3} + \omega_{2} \quad \omega_{3} + \omega_{2} + \omega_{1} + \omega_{0} = \sigma$$