

$$\xi_{0^2} = \frac{1}{2\sqrt{\pi}} \left(C_{00}^0 - \frac{1}{\sqrt{5}} C_{20}^0 + \frac{2}{5} C_{00}^2 - \frac{2}{5\sqrt{5}} C_{20}^2 \right)$$

$$\xi_{1^2} = \frac{1}{2\sqrt{\pi}} \cdot \frac{1}{2} \left(2C_{00}^0 + \frac{1}{\sqrt{5}} C_{20}^0 - \sqrt{\frac{3}{5}} C_{22}^0 - \frac{2}{5} C_{00}^2 - \frac{1}{5\sqrt{5}} C_{20}^2 + \frac{1}{5}\sqrt{\frac{3}{5}} C_{22}^2 \right)$$

$$\xi_{1^2} = \frac{1}{2\sqrt{\pi}} \cdot \frac{1}{2} \left(2C_{00}^0 + \frac{1}{\sqrt{5}} C_{20}^0 + \sqrt{\frac{3}{5}} C_{22}^0 - \frac{2}{5} C_{00}^2 - \frac{1}{5\sqrt{5}} C_{20}^2 - \frac{1}{5}\sqrt{\frac{3}{5}} C_{22}^2 \right)$$

$$\xi_{011} = \frac{1}{2\sqrt{\pi}} \cdot \frac{3\sqrt{6}}{32\sqrt{5}} \pi \left(C_{21}^1 - \frac{1}{4} C_{21}^3 - \frac{5}{128} C_{21}^5 - \dots \right)$$

$$\xi_{011} = + \frac{1}{2\sqrt{\pi}} \cdot \frac{3\sqrt{6}}{32\sqrt{5}} \pi \left(C_{21}^1 - \frac{1}{4} C_{21}^3 - \frac{5}{128} C_{21}^5 - \dots \right)$$

$$\xi_{111} = \frac{1}{2\sqrt{\pi}} \cdot \sqrt{\frac{3}{5}} \left(C_{22}^0 - \frac{1}{5} C_{22}^2 \right)$$

$$4 \times (1+3+5+7) = 64$$

$$\xi_{5^2} = \frac{1}{2\sqrt{\pi}} \left(C_{00}^0 - \frac{1}{\sqrt{5}} C_{20}^0 \right)$$

$$\xi_{05} = \frac{1}{2\sqrt{\pi}} \cdot \frac{2}{\sqrt{3}} \left(C_{00}^1 - \frac{1}{\sqrt{5}} C_{20}^1 \right)$$

$$\xi_{45} = -\frac{1}{2\sqrt{\pi}} \cdot \frac{3}{8}\sqrt{\frac{2}{5}} \pi \left(C_{21}^0 - \frac{1}{8} C_{21}^2 - \frac{1}{64} C_{21}^4 - \dots \right)$$

$$\xi_{15} = -\frac{1}{2\sqrt{\pi}} \cdot \frac{3}{8}\sqrt{\frac{2}{5}} \pi \left(C_{21}^0 - \frac{1}{8} C_{21}^2 - \frac{1}{64} C_{21}^4 - \dots \right)$$

$$C_{20}^2 \equiv 0 \quad C_{22}^2 \equiv 0$$

$$C_{00}^0 \equiv 2\sqrt{\pi} \cdot \frac{1}{3} \left(\xi_{0^2} + \xi_{1^2} + \xi_{1^2} \right)$$

$$C_{20}^0 \equiv 2\sqrt{\pi} \cdot \frac{1}{3\sqrt{5}} \left(\xi_{0^2} + \xi_{1^2} + \xi_{1^2} - 3\xi_{5^2} \right)$$

$$C_{00}^2 \equiv 2\sqrt{\pi} \cdot \frac{5}{2} \left(\xi_{0^2} - \xi_{5^2} \right)$$

$$C_{22}^0 \equiv 2\sqrt{\pi} \cdot -\sqrt{\frac{5}{3}} \left(\xi_{1^2} - \xi_{1^2} \right)$$

$$C_{2+1}^0 \equiv 2\sqrt{\pi} \cdot -\frac{8}{3}\sqrt{\frac{5}{2}} \cdot \frac{1}{\pi} \xi_{115} \quad C_{2+1}^i \equiv 0 \quad (i \geq 2)$$

$$C_{2-1}^0 \equiv 2\sqrt{\pi} \cdot -\frac{8}{3}\sqrt{\frac{5}{2}} \cdot \frac{1}{\pi} \xi_{115} \quad C_{2-1}^i \equiv 0 \quad (i \geq 2)$$

$$C_{2+2}^0 \equiv 2\sqrt{\pi} \cdot \sqrt{\frac{5}{3}} \xi_{111} \quad C_{2-2}^2 \equiv 0$$

$$C_{00}^1 \equiv 2\sqrt{\pi} \cdot \frac{1}{2\sqrt{3}} \xi_{05} \quad C_{20}^1 \equiv 0$$

$$C_{2+1}^1 \equiv 2\sqrt{\pi} \cdot -\frac{32}{3}\sqrt{\frac{5}{6}} \cdot \frac{1}{\pi} \xi_{011} \quad C_{2+1}^i \equiv 0 \quad (i \geq 3)$$

$$C_{2-1}^1 \equiv 2\sqrt{\pi} \cdot -\frac{32}{3}\sqrt{\frac{5}{6}} \cdot \frac{1}{\pi} \xi_{011} \quad C_{2-1}^i \equiv 0 \quad (i \geq 3)$$