$$\mathbb{S}^d = O_{+d}/O_d = \frac{x = x^0{:}\cdots{:}x^d}{{}^2x^0 + \cdot\cdot + {}^2x^d = 1}$$

$$L^2\left(\mathbb{S}^d\right) = \sum_m^{\mathbb{N}} L_m^2\left(\mathbb{S}^d\right)$$

$$L_m^2\left(\mathbb{S}^d\right) = \mathbb{C}\frac{\overbrace{a|x}^m}{a \in \mathbb{C}^{+d}{:}\quad a|\bar{a} = 0} = \left(O\left(+d\right)\right)_m$$

$$\overbrace{a|x}^m{:}\quad a \in \mathbb{C}^{+d}$$

$$i \in +d = 0{:}1{:}\cdots{:}d$$

$$\partial_i \overbrace{a|x}^m = m\,\overbrace{a|x}^{m-} \underbrace{a|e_i}$$

$$\partial_i^2 \overbrace{a|x}^m = m\,(m-)\,\overbrace{a|x}^{m-2} \underbrace{a|e_i}\underbrace{a|e_i}$$

$$\sum_i^{+d} \partial_i^2 \overbrace{a|x}^m = m\,(m-)\,\overbrace{a|x}^{m-2} \sum_i^{+d} \underbrace{a|e_i}\underbrace{a|e_i} = m\,(m-)\,\overbrace{a|x}^{m-2} \underbrace{a|\bar{a}}$$

$$\Omega_m\left(x\right) = \overbrace{x^0 + ix^1}^m$$