



Ω

[constant
coefficients]

box

$$u(\mathbf{x}) = X(x)Y(y)\dots$$



Ω

[rotation-invariant
coefficients $c(r)$ only]

rotational symmetry

$$\begin{aligned} u(\mathbf{x}) &= R(r)P(\text{angles}) \\ &= R(r)e^{im\varphi} \text{ in 2d} \end{aligned}$$



Ω

[translation-invariant
coefficients $c(y,\dots)$ only]

translational symmetry

$$u(\mathbf{x}) = e^{ikx}F(y,\dots)$$