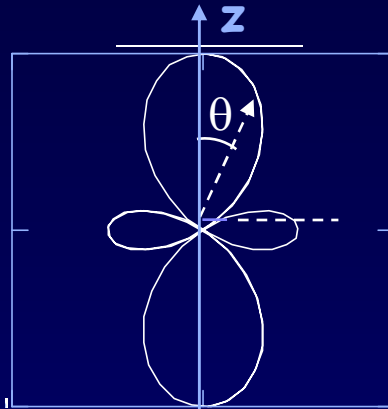


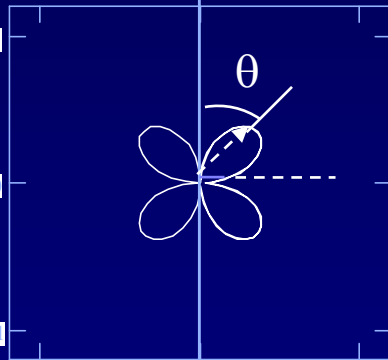
# The Angular Wave Function, $Y_{lm}(\theta, \varphi)$

$$l = 2$$

$$|Y_{2,0}| \propto |3\cos^2\theta - 1|$$



$$|Y_{2,\pm 1}| \propto |\sin\theta \cos\theta|$$



$$|Y_{2,\pm 2}| \propto |\sin^2\theta|$$

