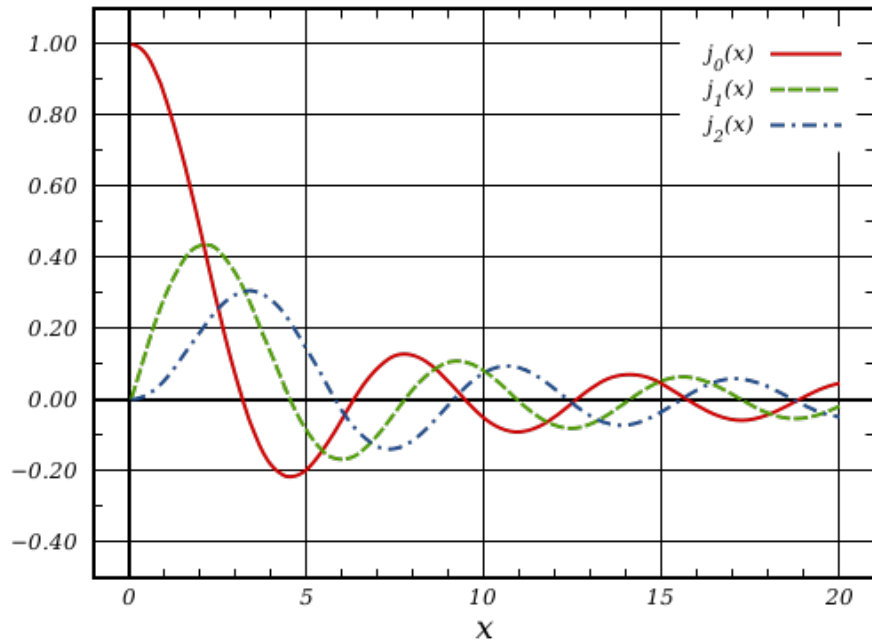


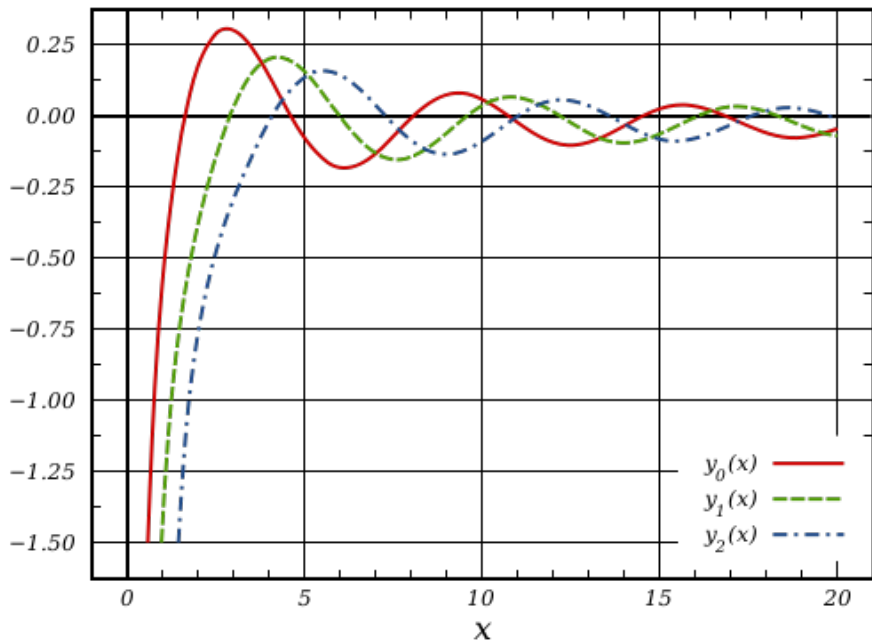
## Spherical Bessel functions: $j_n, y_n$



$$j_0(x) = \frac{\sin(x)}{x}$$

$$j_1(x) = \frac{\sin(x)}{x^2} - \frac{\cos(x)}{x}$$

$$j_2(x) = \left(\frac{3}{x^2} - 1\right) \frac{\sin(x)}{x} - \frac{3 \cos(x)}{x^2}$$



$$y_0(x) = -j_{-1}(x) = -\frac{\cos(x)}{x}$$

$$y_1(x) = j_{-2}(x) = -\frac{\cos(x)}{x^2} - \frac{\sin(x)}{x}$$

$$y_2(x) = -j_{-3}(x) = \left(-\frac{3}{x^2} + 1\right) \frac{\cos(x)}{x} - \frac{3 \sin(x)}{x^2}$$