Kugelflächenfunktionen

\[ Y_0^0 = \frac{1}{\sqrt{4\pi}} \]

\[ Y_1^{\pm 1}(\theta, \phi) = \pm \sqrt{\frac{3}{8\pi}} \sin \theta \, e^{\pm i\phi} \]

\[ Y_1^0(\theta, \phi) = \sqrt{\frac{3}{4\pi}} \cos \theta \]

\[ Y_2^{\pm 2}(\theta, \phi) = \sqrt{\frac{15}{32\pi}} \sin^2 \theta \, e^{\pm 2i\phi} \]

\[ Y_2^{\pm 1}(\theta, \phi) = \pm \sqrt{\frac{15}{8\pi}} \sin \theta \, e^{\pm i\phi} \]

\[ Y_2^0(\theta, \phi) = \sqrt{\frac{5}{16\pi}} (3 \cos^2 \theta - 1) \]