

■ Kugelflaechenfunktionen – Visualisierung

```
In[1]:= Manipulate[ParametricPlot3D[Evaluate[{Sin[theta] Cos[phi], Sin[theta] Sin[phi], Cos[theta]}  
  Abs[SphericalHarmonicY[1, m, theta, phi]]], {phi, -Pi, Pi},  
  {theta, 0, Pi}, PlotRange → {{-.5, .5}, {-.5, .5}, {-1.1, 1.1}}, Mesh → False,  
  PlotPoints → {36, 18}, MaxRecursion → ControlActive[0, 2], ViewAngle → .246,  
  ImageSize → {500, 377}, Axes → False, SphericalRegion → True, Boxed → False],  
  {{1, 2, "l"}, 0, 7, 1, Appearance → "Labeled"}, {{m, 0, "m"}, -1, 1, 1, Appearance → "Labeled"}]
```

Out[1]=

