

```
[ > with(plots):  
[ > addcoords(z_cylindrical,[z,r,theta],[r*cos(theta),r*sin(theta),z  
  l]);  
[ > m := 1;  
  a:= BesselJZeros(0,m); evalf(a);  
                                m:= 1  
                                a := BesselJZeros(0, 1)  
                                2.404825558  
[ > animate3d(  
  cos(a*t) * BesselJ(0, a*r)  
  ,r=0..1, theta=0..2*Pi,  
  t=0..Pi, frames=100,  
  coords=z_cylindrical,  
  scaling=constrained, axes=normal, orientation=[45,60]);  
[ >
```