An Electron in n = 1, with 0 units of Angular Momentum, looks like this, all the time:
An Electron in $n = 2$, with 0 units of Angular Momentum, looks like this, all the time:
An Electron in $n = 2$, with 1 unit of Angular Momentum, looks like this, all the time:
An Electron in n = 3, with 0 units of Angular Momentum, looks like this, all the time:
An Electron in $n = 3$, with 1 units of Angular Momentum, looks like this, all the time:
An Electron in n = 3, with 2 units of Angular Momentum, looks like this, all the time:
An Electron in $n = 14$, with 7 units of Angular Momentum, looks like this, all the time:
An Electron in $n = 14$, with 7 units of Angular Momentum, looks like this, all the time: