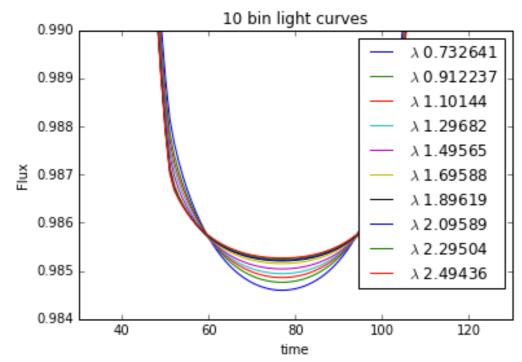
Is this what we want for the project?

```
In [151]:
          bin num = 10
          bin size = 2048/bin num
In [152]: depth = []
          wavelength = []
           for j in range(0,bin_num):
               #print j*bin size, (j+1)*bin size, j
               trimmed_light = []
               trimmed_wavelength = []
               for i in range(1,145):
                   spec1 = hdulist1D[i]
trimmed_light.append((sum(spec1.data.field(1)))
                       [j*bin_size:(j+1)*bin_size])))
                   cur_max = max(spec1.data.field(1)[j*bin_size:(j+1)*bin_size])
                   cur min = min(spec1.data.field(1)[j*bin_size:(j+1)*bin_size])
               trimmed\_wavelength.append(spec1.data.field(0)[(j+0.5)*bin\_size])
               wavelength.append(trimmed_wavelength)
               depth.append(cur_max - cur_min)
               pylab.plot(trimmed light/trimmed light[0], label = ("$\lambda$ "+str((tr
          pylab.xlim([30,130])
          pylab.ylim([0.984,0.990])
          pylab.title(str(j+1)+" bin light curves")
          pylab.xlabel("time")
          pylab.legend()
```



```
pylab.plot(wavelength, depth)
pylab.title('10 Binned Spectra Wavelength vs. Transit Depth')
pylab.ylabel('Transit Depth')
pylab.xlabel('Wavelength')
pylab.xlim([0.5,2.5])
pylab.show()
```

