## Dichroics for the Next Generation Adaptive Optics System for W. M. Keck Observatory:

We would like all dichroics to have as sharp a transition between reflection and absorption as possible, while, we would like to avoid ripples in the transmission curve. I would like to know what the largest optic that your facility can coat is and what coating you would use for the following with typical transmission curves. I would like to get quotes for 12" optics with the following specifications:

1. Reflects $400-900 \mathrm{~nm}$ and transmits all IR wavelengths above 900 nm Angle of Incidence = 10 degrees, Unpolarized light
2. Reflects $400-1000 \mathrm{~nm}$ and transmits all IR wavelengths

Angle of Incidence $=10$ degrees, Unpolarized light
3. Reflects $1.13-1.37$ microns (J-band) and transmits over 1.37 microns Angle of Incidence $=22.5$ or 45 degrees, Unpolarized light
4. Reflects $1.5-1.80$ microns ( H -band) and transmits over 1.80 microns Angle of Incidence $=22.5$ or 45 degrees, Unpolarized light
5. Reflects 1.5-2.42 microns ( k and H -band) and transmits over 2.42 microns Angle of Incidence $=22.5$ or 45 degrees, Unpolarized light
6. Reflects .6-.99 microns ( R to Z -band) and transmits over 1 micron Angle of Incidence $=22.5$ or 45 degrees, Unpolarized light
7. Reflects $1.13-1.37$ microns (J-band) and transmits over 1.37 microns Angle of Incidence $=22.5$ or 45 degrees, Unpolarized light
8. Reflects $1.5-1.80$ microns ( H -band) and transmits over 1.80 microns Angle of Incidence $=22.5$ or 45 degrees, Unpolarized light
9. Reflects $1.5-2.42$ microns ( k and H -band) and transmits over 2.42 microns Angle of Incidence $=22.5$ or 45 degrees, Unpolarized light
10. Reflects .81-. 99 microns (Z-band) and transmits over 1 micron Angle of Incidence $=22.5$ or 45 degrees, Unpolarized light
11. Reflects .7-. 9 microns (I-band) and transmits over . 9 micron Angle of Incidence $=22.5$ or 45 degrees, Unpolarized light
12. Reflects . 58 -. 66 microns ( R -band) and transmits over .66 micron Angle of Incidence $=22.5$ or 45 degrees, Unpolarized light
13. Reflects $.49-59$ microns ( $V$-band) and transmits over .9 micron Angle of Incidence $=22.5$ or 45 degrees, Unpolarized light
14. Reflects < .1 microns and transmits over .1 micron Angle of Incidence $=22.5$ or 45 degrees, Unpolarized light

I look forward to hearing from you.

