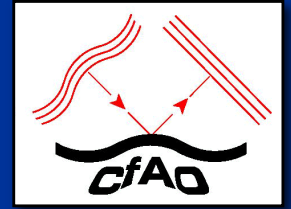
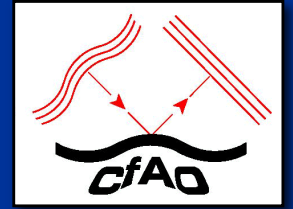


Some Science Requirements you should consider. For each, explain why. (1)



- What is your target sample? How many objects in order to answer your science question?
- What science instruments will you use to observe your sample? (Imager? Spectrograph? If the latter, slit or 2D?)
- What sky coverage fraction do you need?
- What is your required field of view (angle)?
- What wavelengths will you be observing at?
- What spatial resolution do you need? (arc sec)
 - Or can phrase this in terms of a Strehl ratio at a your wavelength

Science Requirements you need to consider. For each, explain why. (2)



- What enclosed energy fraction do you need? (e.g. I need half the energy in the PSF to be within 0.02”)
- If you need a wide field (a few arc min), do you need to image the whole field at once, or are you looking at multiple discrete objects (e.g. postage stamps) within the wider field?
- If you are observing a faint object next a bright object, what contrast ratio do you need?
- NOTE: Not all of these questions will apply to every science case. If a question doesn't apply, by all means leave it out.