

# In Infrared AO sharpens the off axis tip tilt star

- IR Advantages:
  - Sharpened image, diffraction limited core
  - There are more stars per square degree at a given signal level
  - The higher sky background at IR wavelengths not significant if you avoid the K band ( $>2.3$  microns)
- See Sandler, et. al (*JOSA A*, 1994, Fig 5 and 6)
  - 25 arc seconds off axis from LGS, (FOV  $\sim 0.4$  arc seconds)

