

## Potentially Relevant Photometric Precision Error Terms

### Atmosphere

- Wind-induced anisoplanatism
- Imperfect knowledge of  $\theta_0$
- Science path scintillation
- Variable PSF fit due to crowding
- Variable extinction across the FoV (transparency waves)
- Airmass variation across the FoV
- Heterochromatic extinction

### Optics

- Telescope Vibrations
- Science path photon noise
- Imperfect PSF estimation due to field-dependent aberrations (particularly field curvature)
- Filter bandpass uncertainties
- Field-dependent transmission effects (beamwalk)

poisson

### Detectors

- Read noise
- Dark current
- Imperfect flat-fielding
- Detector non-linear response
- Imperfect background subtraction

gaussian

### Source

- Time variable chromatic emissions (e.g. color variations)
- Differential interstellar extinction
- Maculation of individual stars (sunspots)

### Other

- Bad data points (electronics glitches, stray lights, etc.)
- Aliasing of variable stars due to non-Nyquist time sampling