Non-linearity: $f = x - \beta x^2$ ($\beta = 3.566\text{e-}07$)
Gaussian ($\sigma = 0.1''$) * Pixel (0.11/8 arcsec/pix), no noise.

H158 (1.577 μm)

Legend (top plot):
- 1e-5
- e1=0
- e2=0
- e1=0.05
- e2=0
- e1=0.05
- e2=0.05

Δe vs mag_object

H158 (1.577 μm)

Legend (bottom plot):
- 1e-4
- (e1,e2)=(0,0)
- Theory

$\Delta R/R$ vs mag_object