

Building a 3D extinction model

A)

use multi-band photometry to solve for multiple APs



impose self-consistency

parametrized dust model

$$\rho \simeq \rho_0 \exp \left(-\frac{R}{a_R} - \frac{|z|}{a_z} \right)$$

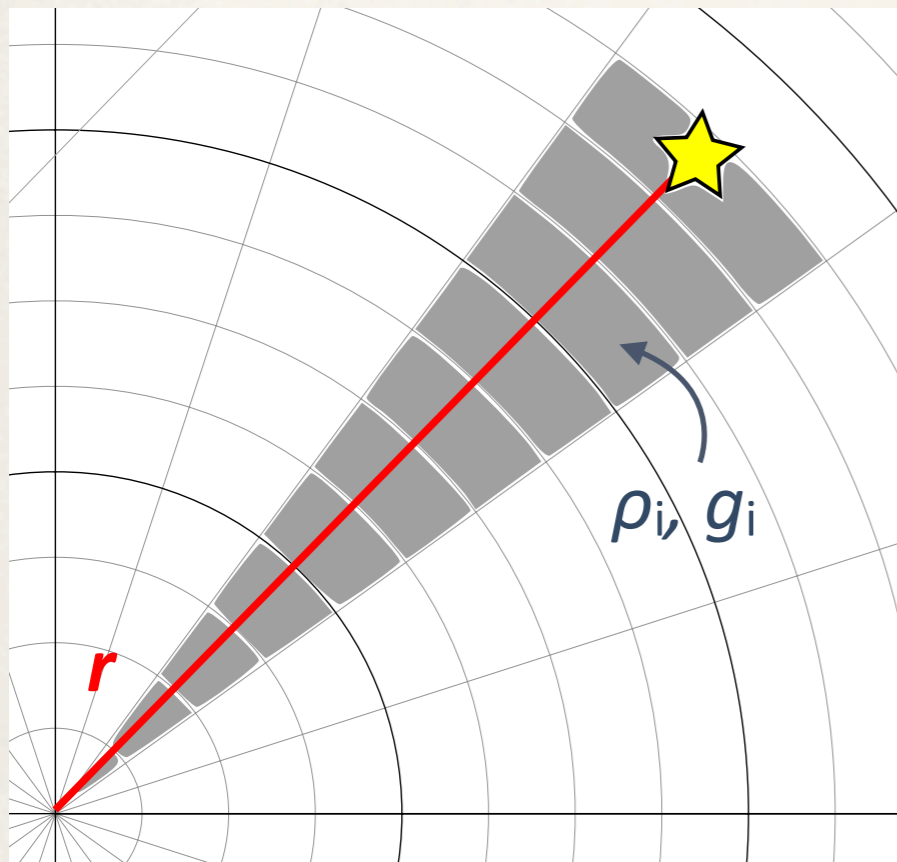


use $A_0, T_{\text{eff}}, (l, b, \omega)$ to build a forward model in Bayesian framework

Building a 3D extinction model

B)

use multi-band photometry to solve for multiple APs



impose self-consistency

non-parametrized dust model

$$A = \kappa \int \rho ds \simeq \kappa \sum \rho_i g_i$$

use $A_0, T_{\text{eff}}, (l, b, \omega)$ to build a forward model in Bayesian framework
use input from A) as initial values