

# Simulation of Filter Calibration

(suggested by D.Depoy)

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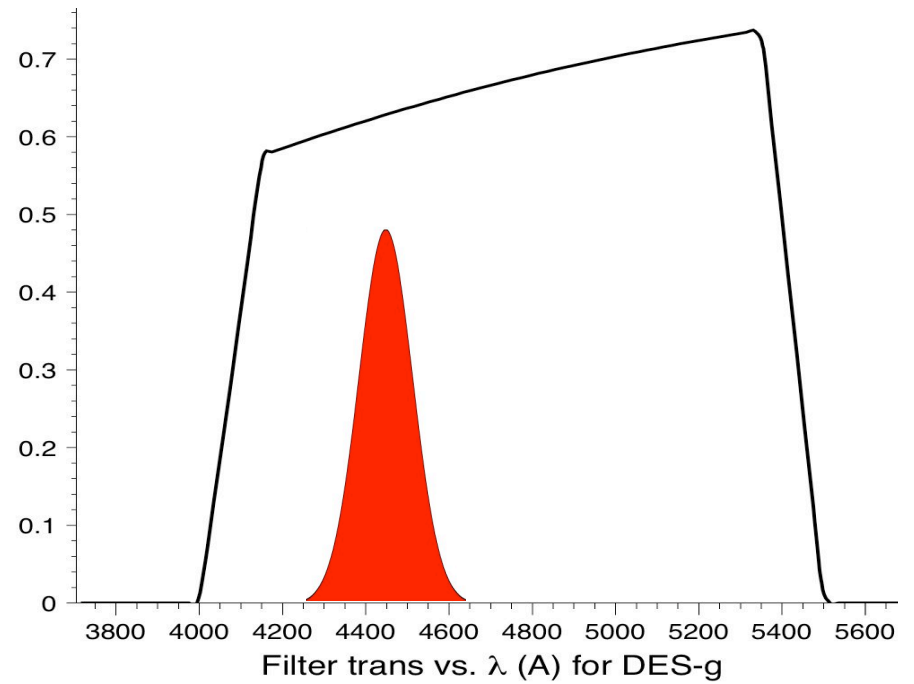
DES-calib meeting

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# Goal

- Determine filter-calibration parameters (beam sigma & step size) needed for a given precision on synthetic photometry.

# Basic Idea



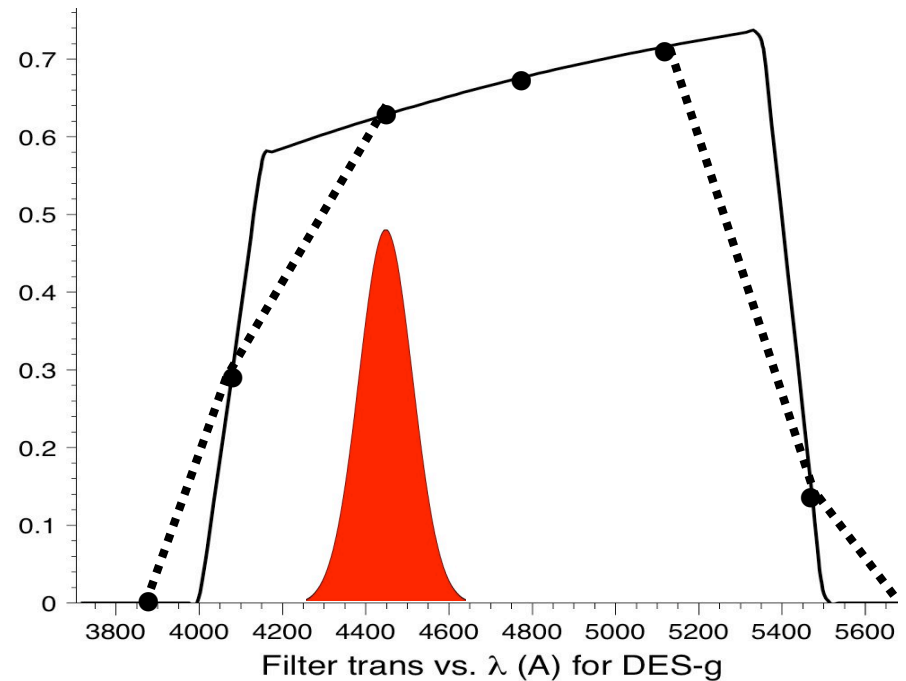
# Basic Idea

Assume central  $\lambda$  is perfectly known.

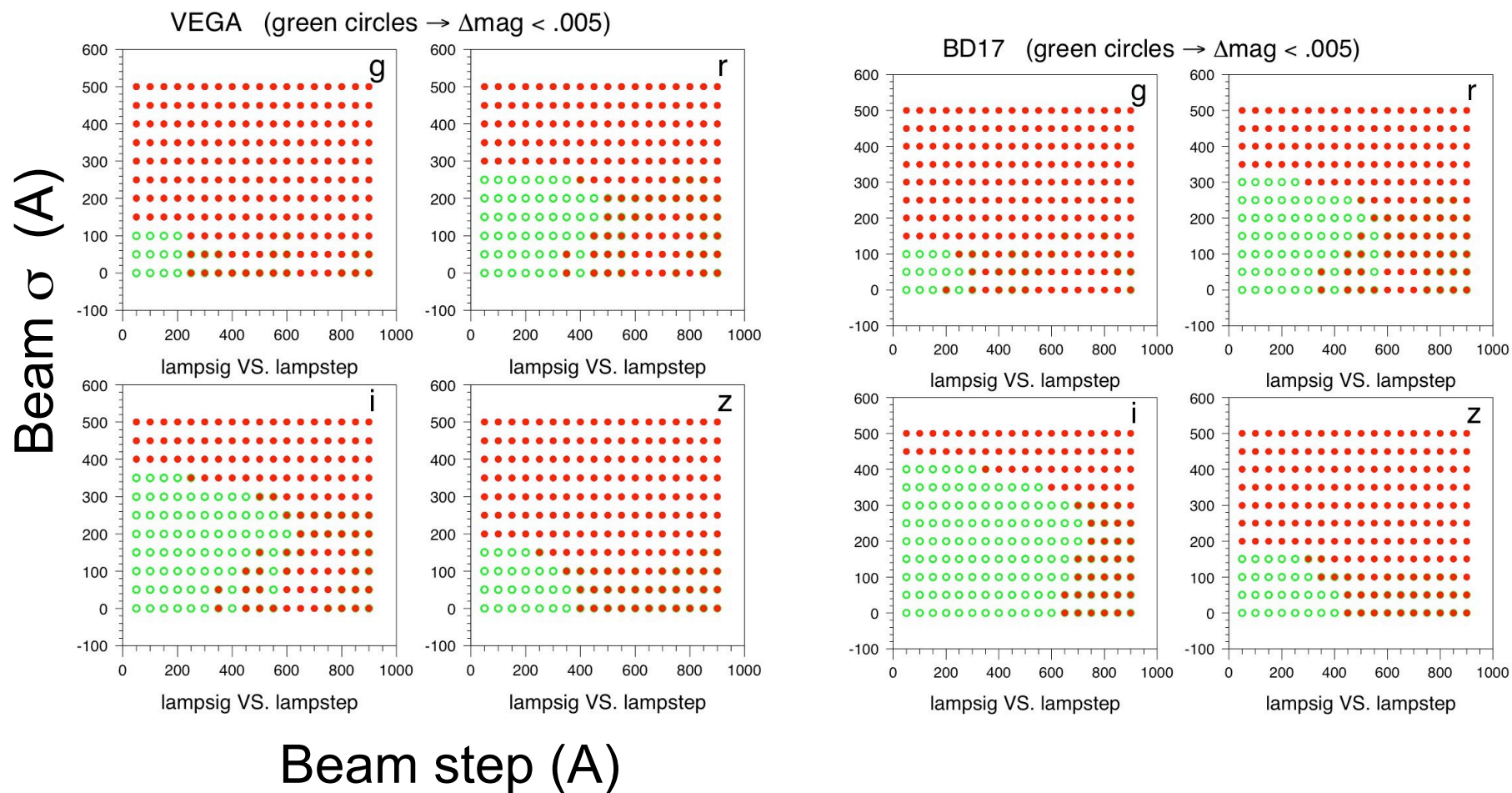
Vary 2 parameters:

1. Beam  $\sigma$
2.  $\lambda$  **step** size

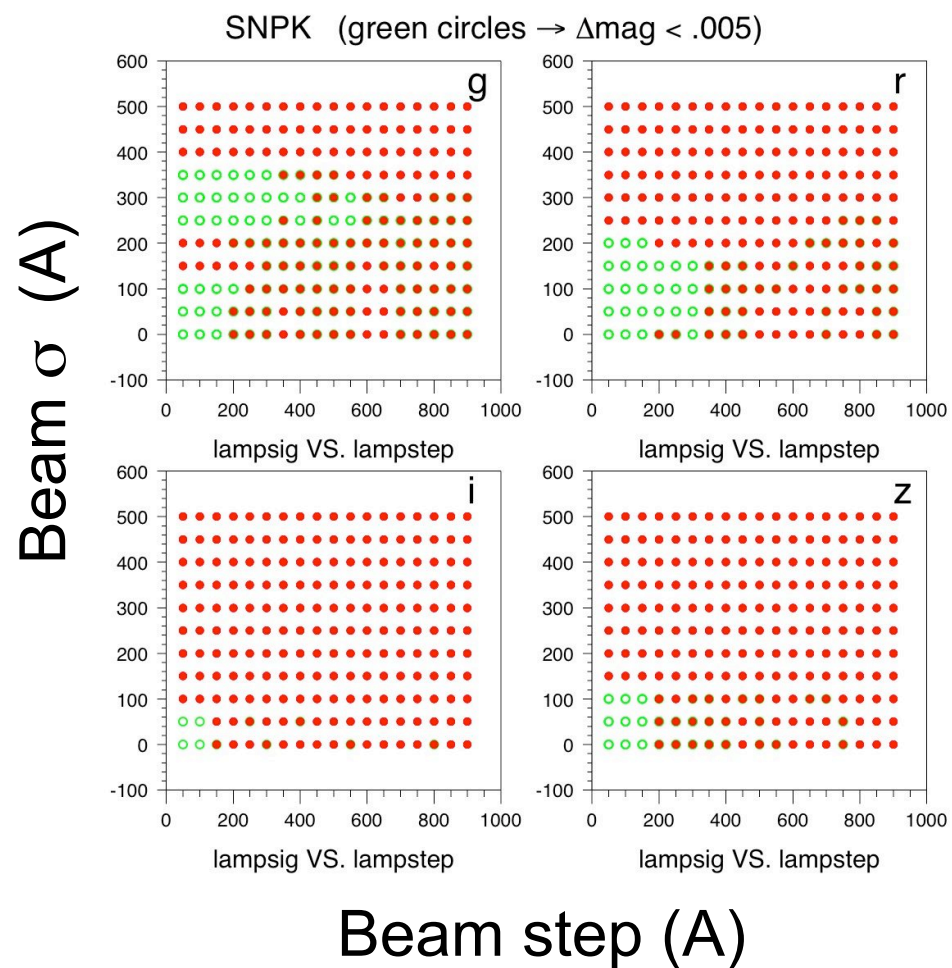
For each  $\{\sigma, \text{step}\}$  pair, interpolate transmission measurements (----) and compute synthetic mag.



# Prelim results



# Prelim results



# To Finish:

- More realistic filter responses (with wiggles)
- Redshifted SN
- Include galaxies (send me your favorites)
- More testing
- Filter-shape priors (?)