

Some Star Flat Progress

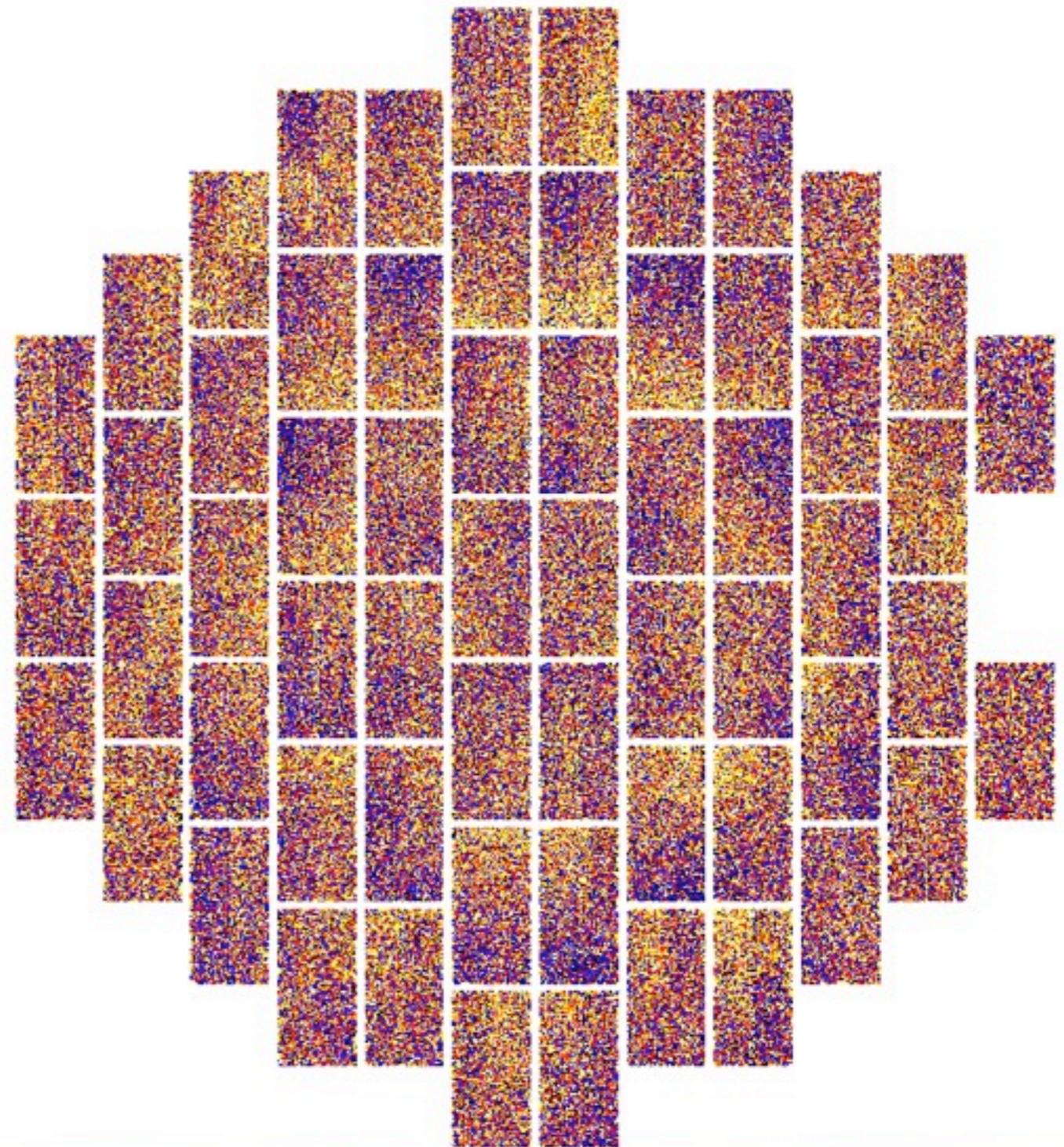
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star flat algorithm

- Basically, uber-calibration
- Varying parameterizations of the focal plane response:
 - ZP per CCD (will try per amplifier)
 - Linear dependence on x,y per CCD
 - Polynomial dependence on x,y in the focal plane
- Using the (first) set of star flat data from Gary
- Note: the fitting is touchy!
- Would like to automate a choice of parameterization

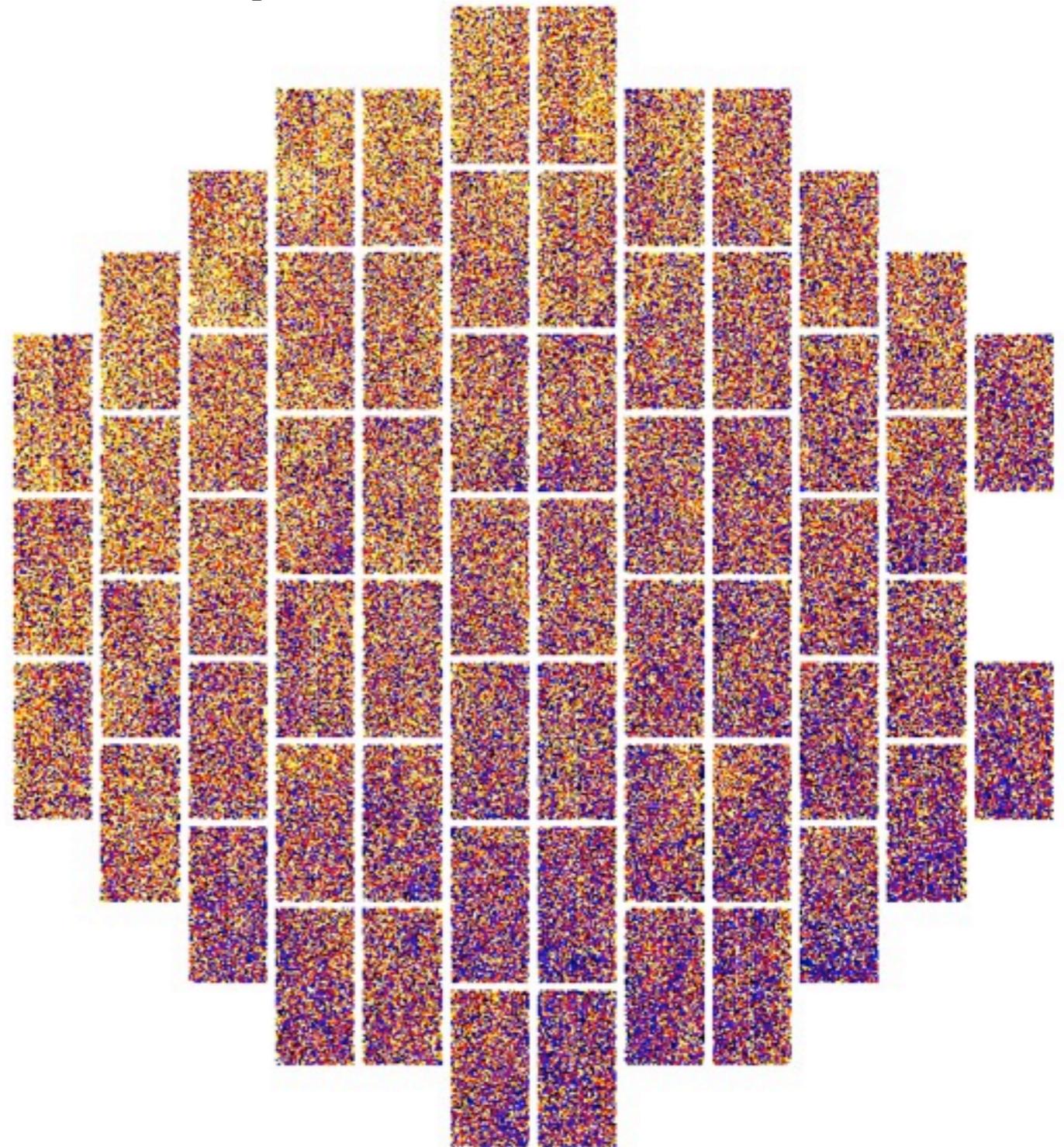
g band, one ZP per ccd

- original RMS = $7.8e-02$
- RMS after flat = $6.8e-02$ (87%)



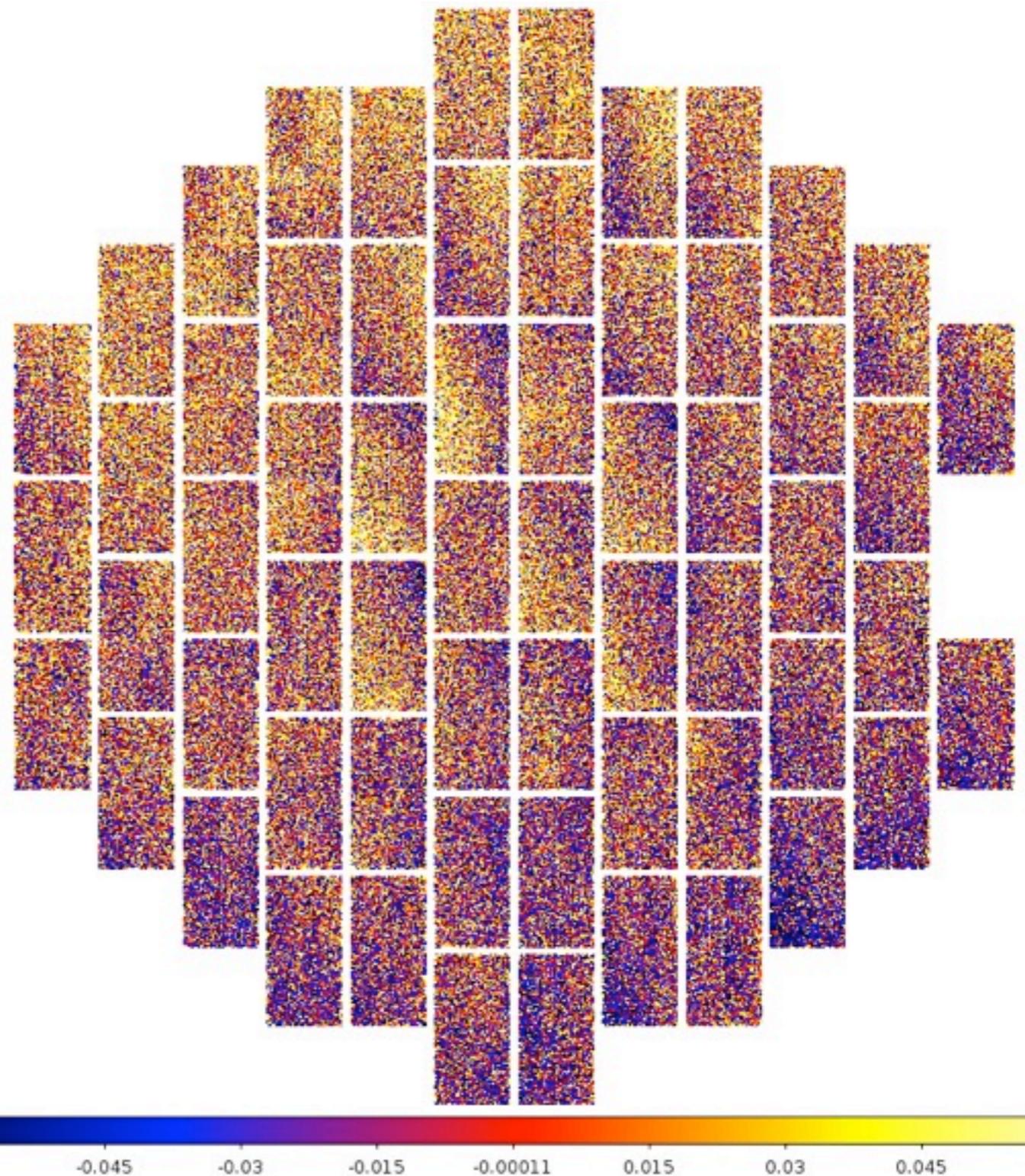
g band, one ZP per ccd, plus xy dependence per ccd

- original RMS = 1.16e-01
- RMS after flat = 9.6e-02 (83%)
- note: gradient



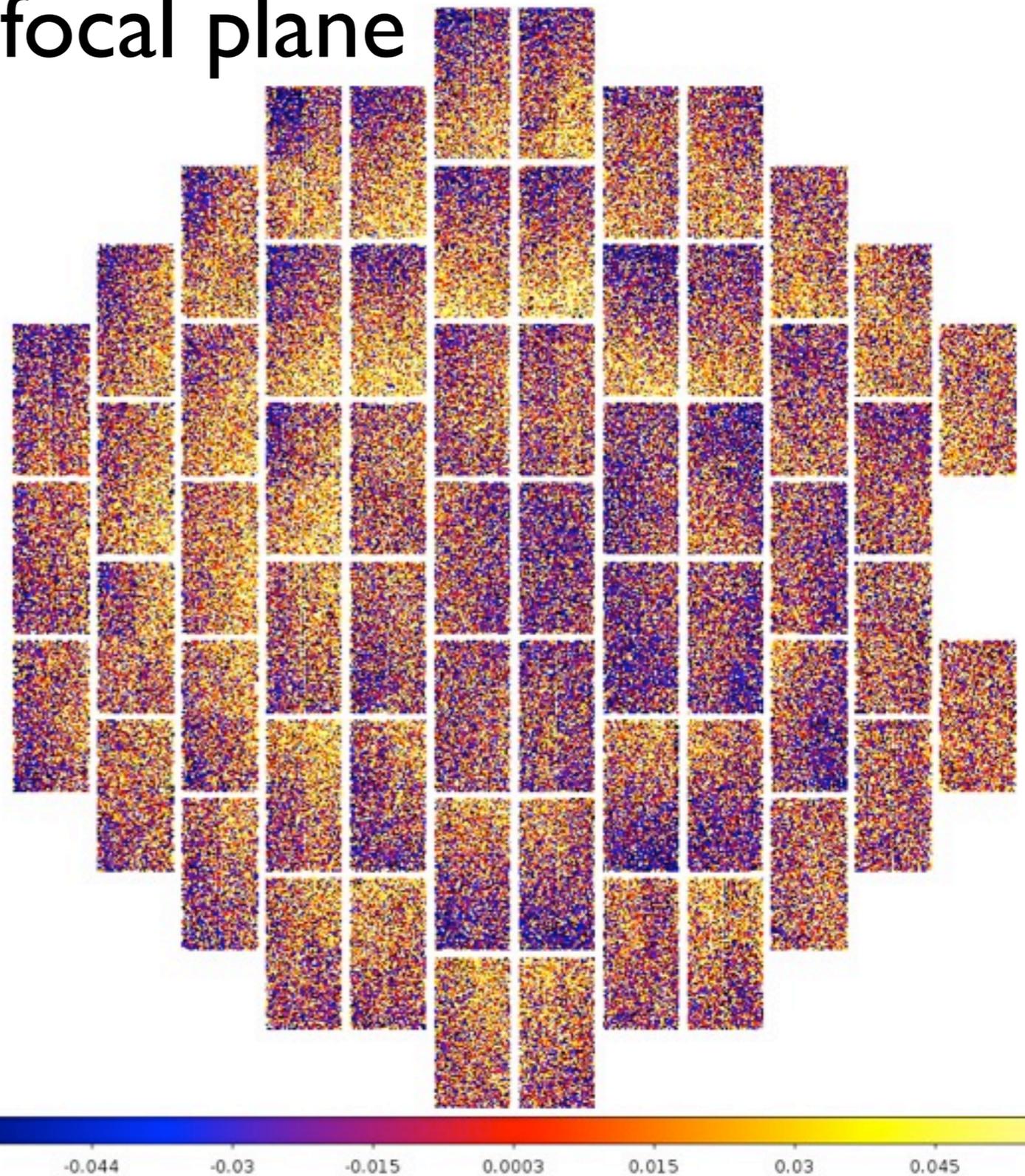
g band, one ZP per ccd, plus xy dependence per ccd (different obj cuts)

- original RMS = $8.7e-02$
- RMS after flat = $6.0e-02$ (69%)



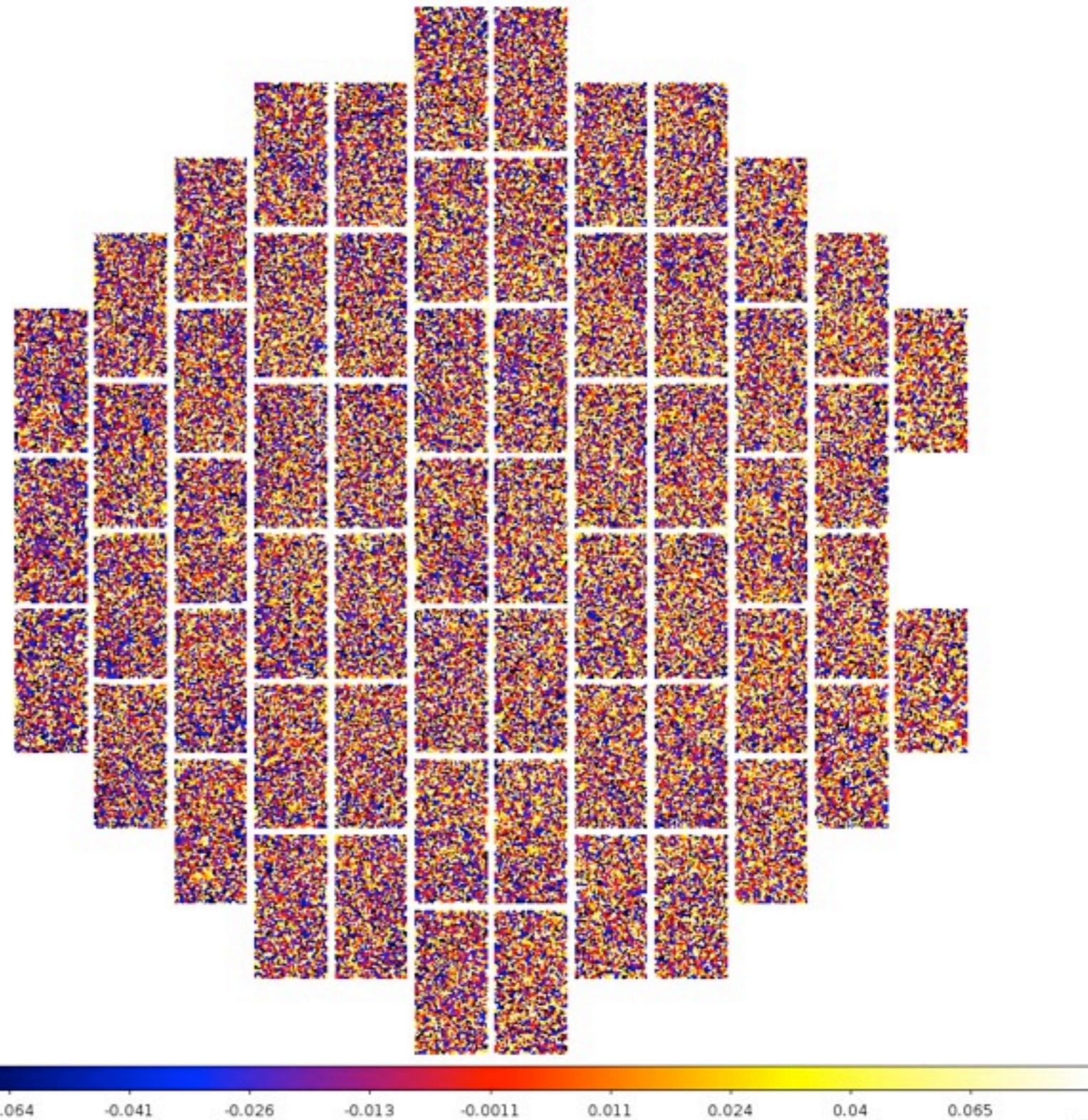
g band, one ZP per ccd, plus xy dependence per ccd, plus polynomial over the focal plane

- original RMS = $8.7e-02$
- RMS after flat = $6.0e-02$ (69%)



i band, one ZP per ccd

- original RMS = $7.8e-02$
- RMS after flat = $6.8e-02$ (87%)



i band, one ZP per ccd, plus polynomial over the focal plane

- original RMS = $7.8e-02$
- RMS after flat = $6.75e-02$ (87%)

