

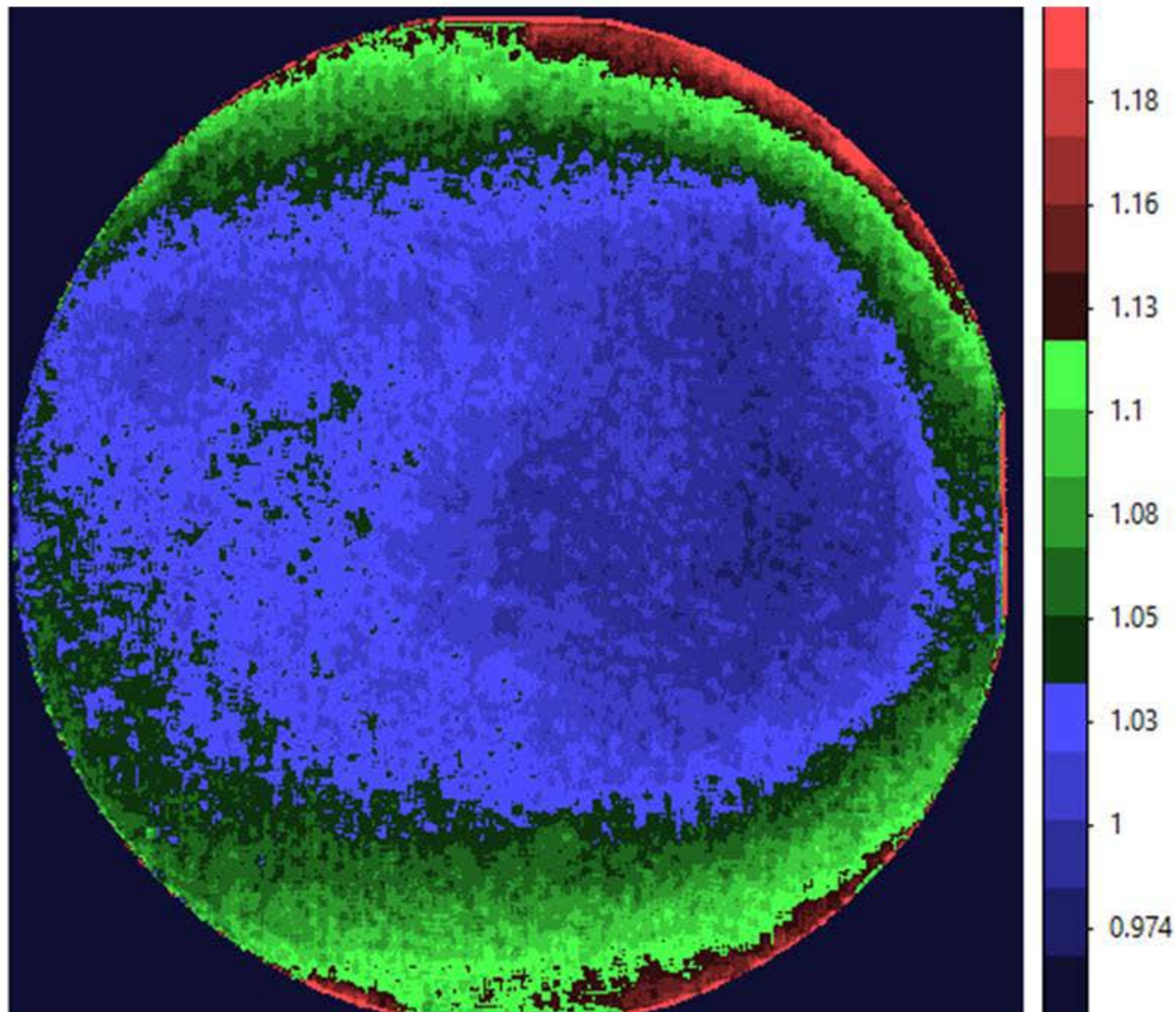
# Future Prospects

S N Tandon, IUCAA  
Astrosat Calibration Meeting  
Astrosat Science Support Cell  
IUCAA, Pune  
August 23-24, 2022

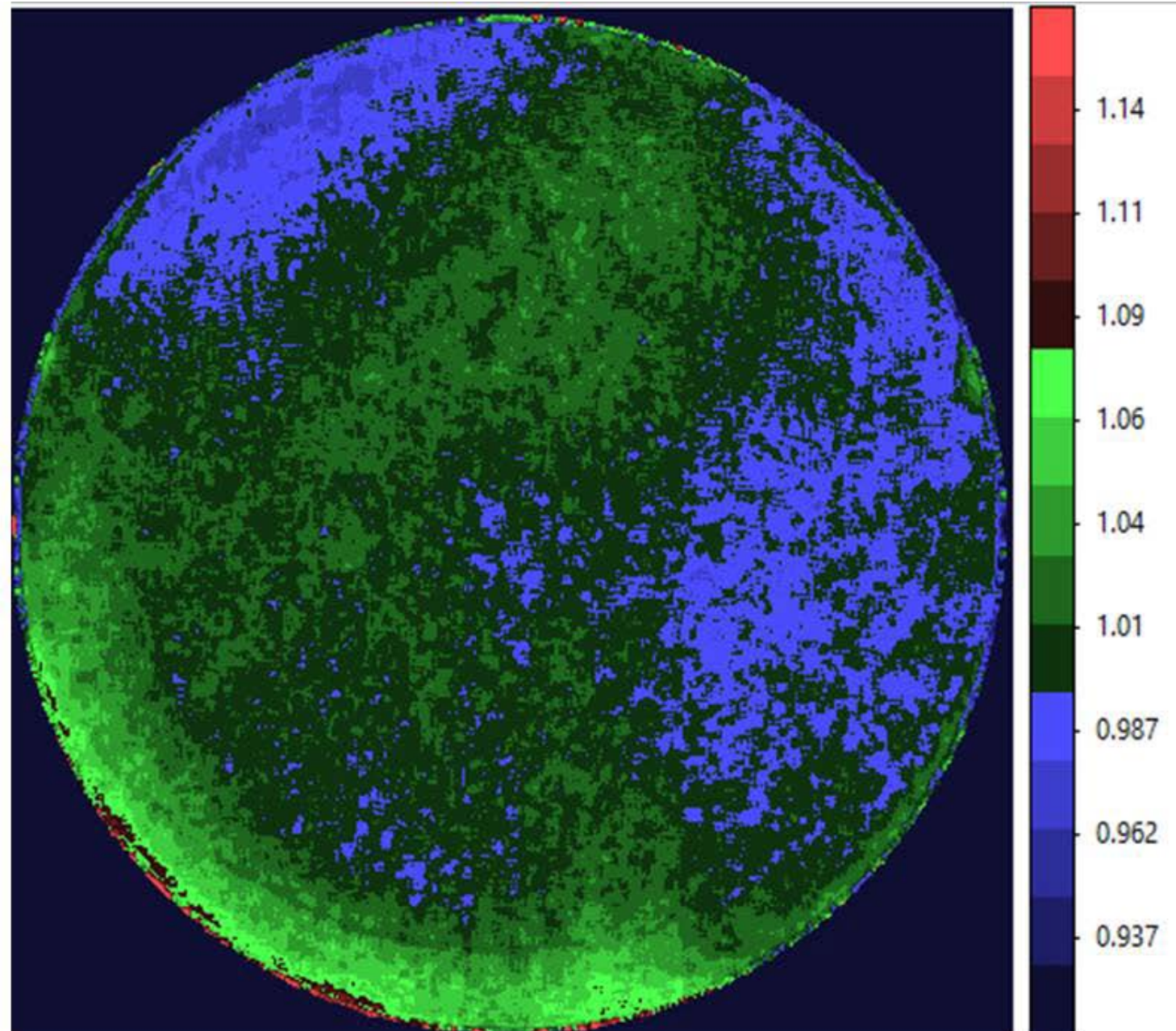
# Future ...

- Flat field corrections
- Distortion correction
- Upper limits on Blue-leak
- Better Astrometric Calibration with VIS images

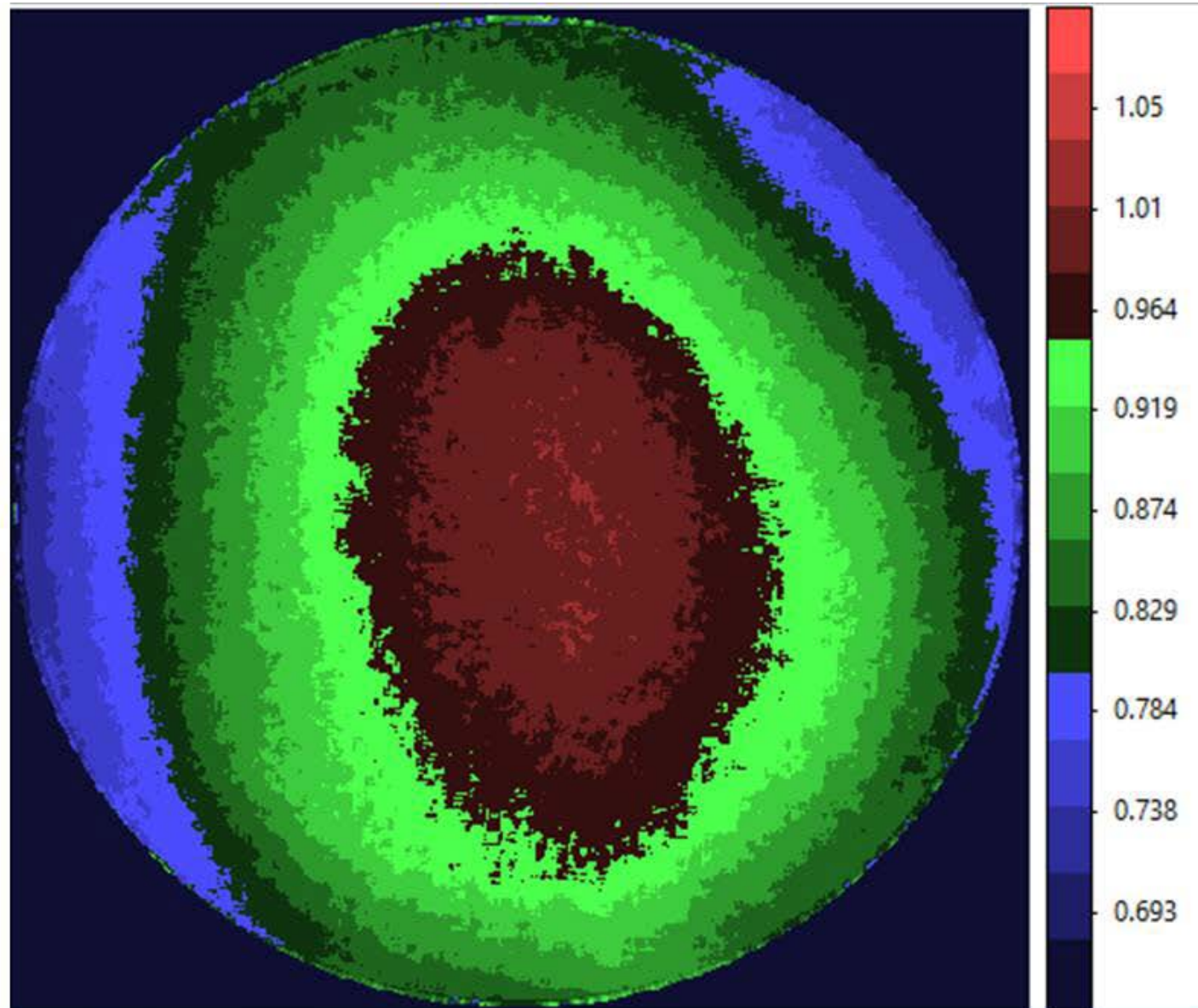
All FUV



# NUV Silica



NUV B219



# Future ...

- Improving Flat-field

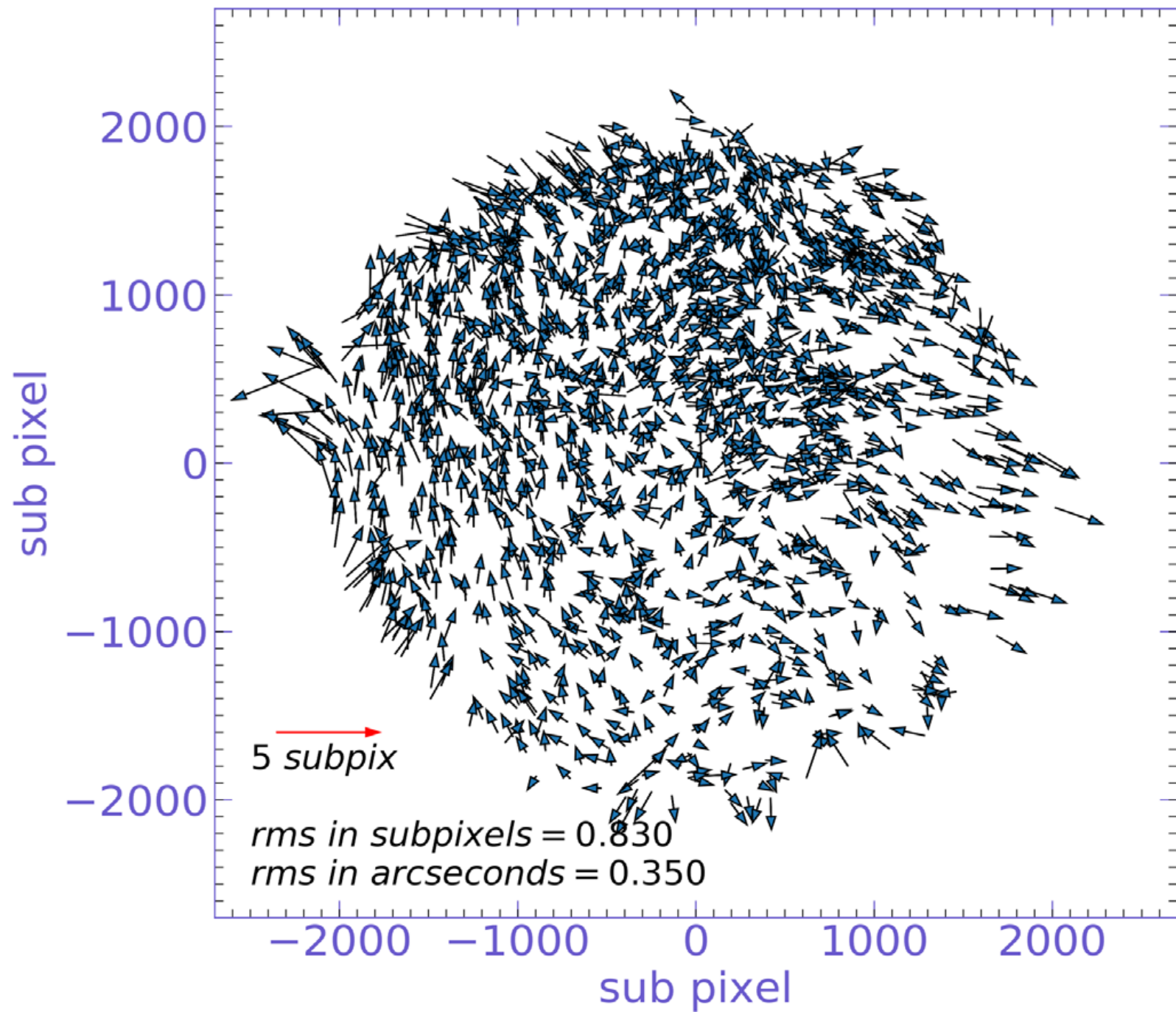
Multiple Images of NGC 188 (an open cluster) taken over different months, i.e. at different field rotation angles, can be analysed to improve the flat field corrections.

For FUV, multiple exposures can be taken with HZ4 by moving the source to different parts of the field

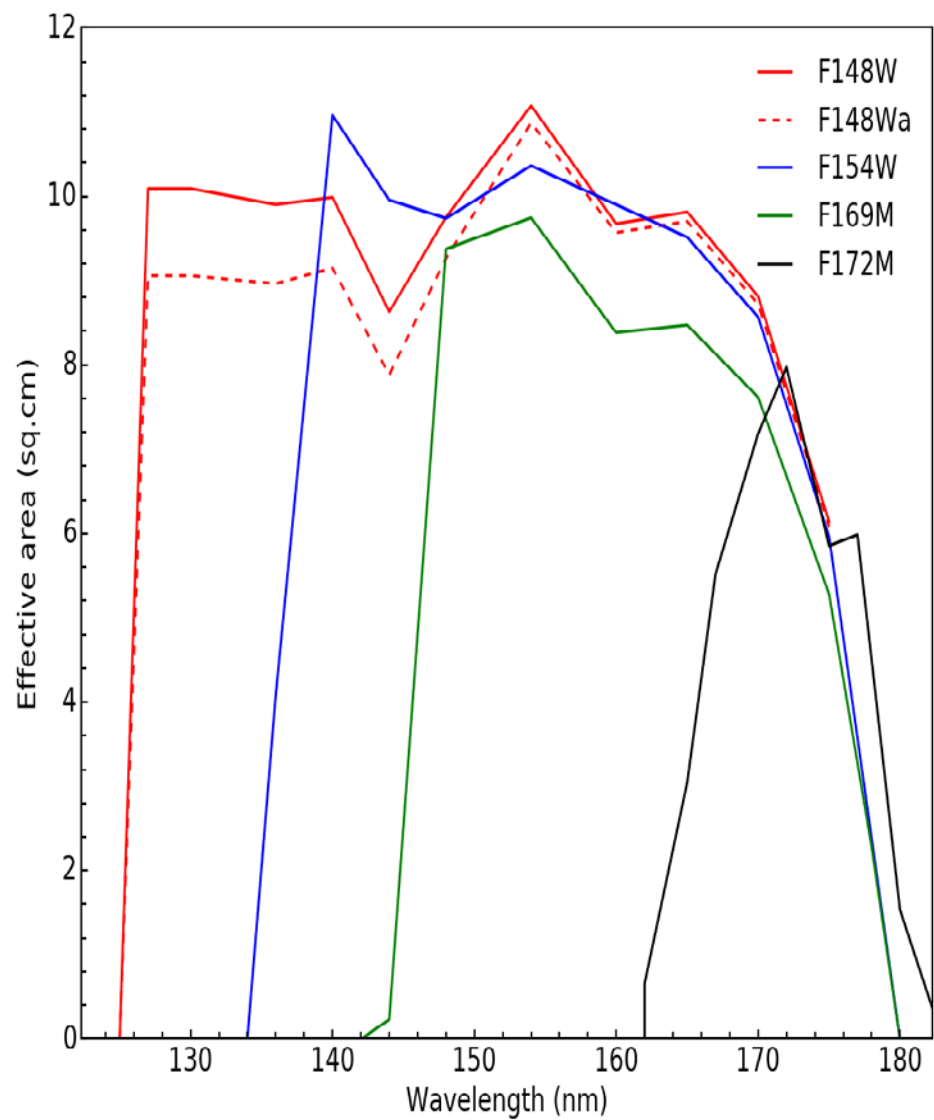
- Distortion Correction

Images of dense fields, having many stars, can be used to improve the correction by comparing positions of the standard stars with the standard coordinates

Difficulty: any source moves by up to 3' on the detector for any imaging session.



# RED LEAK





# Better ...

- The relative orientation of the three channels changes by  $< 1''$
- Astrometric position of the VIS field can be transferred to NUV and FUV
- For dark field where bright NUV/FUV stars are not many this would help