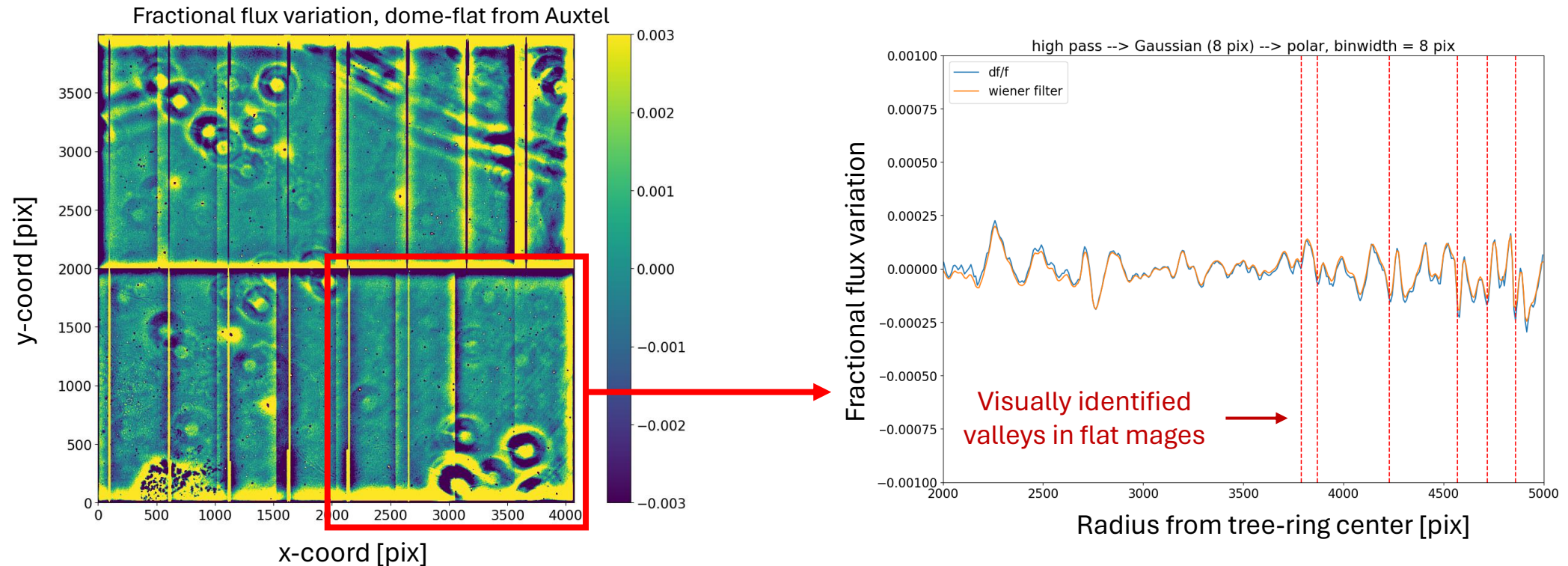# Tree-rings in the LSST Camera

Tree-rings are circular variations in the effective CCD pixel size. They impact photometry, astrometry and shape measurements.

Fractional flux variation, dome-flat from Auxtel

high pass --> Gaussian (8 pix) --> polar, binwidth = 8 pix

Visually identified valleys in flat mages

- **Quantify and summarize the level of tree-rings in LSST Camera**
- **Explore ways to better identify tree-rings in flat images**