Feedback presentation March 29th

Report:

* Butter -> Butterworth
* Overall could be confusing, needs restructuring and introduction
  + “to compare three wavefront reconstruction methods” without saying which
* In the introduction it should be shown what will be explained where if you want conclusion first (which is done in mathematics)
* Not only compare quality, but also speed, complexity (interferogram method seems ``delicate’’), $$$
* Explain the difference between interferogram method and the reference interferogram
* Hough Transform part is difficult to read
* φ is usually optical path length, W is difference in OPL

Research:

* Disc Harmonic functions have less cross coupling between modes, but the coefficients fall off less quickly.
  + Shengyang, Huang, et al. "Eigenfunctions of Laplacian for phase estimation from wavefront gradient or curvature sensing." *Optics Communications* 284.12 (2011): 2781-2783.
  + Shengyang, Huang, et al. "Modal wavefront reconstruction with Zernike polynomials and eigenfunctions of Laplacian." *Optics Communications* 288 (2013): 7-12.
* Zernike polynomials over a big domain can be linked to subdomains, both scaled and shifted
  + Janssen, Augustus JEM, and Peter Dirksen. "Concise formula for the Zernike coefficients of scaled pupils." *Journal of Micro/Nanolithography, MEMS, and MOEMS* 5.3 (2006): 030501-030501. (scaled)
  + Janssen, A. J. E. M. "New analytic results for the Zernike circle polynomials from a basic result in the Nijboer-Zernike diffraction theory." *Journal of the European Optical Society-Rapid publications* 6 (2011). (shifted and scaled)
* Show RMS and reconstruction for optimized radius (both LSQ and Janssen), and average
* With SLM, occlude the centre to get an annular aperture
* Marginally change the aperture while keeping the same