

Annex 1

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X-ray Optics Group

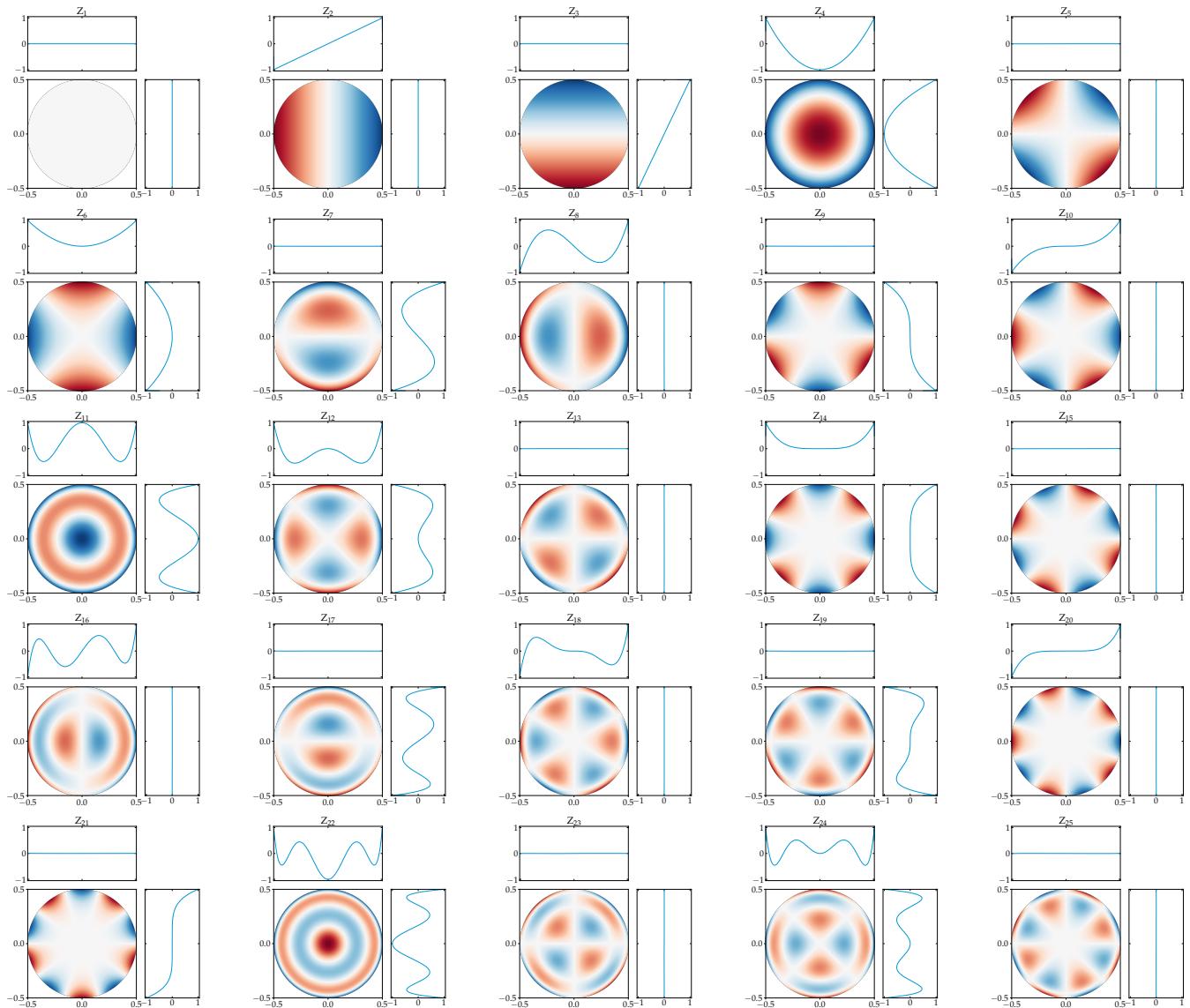
ESRF - The European Synchrotron

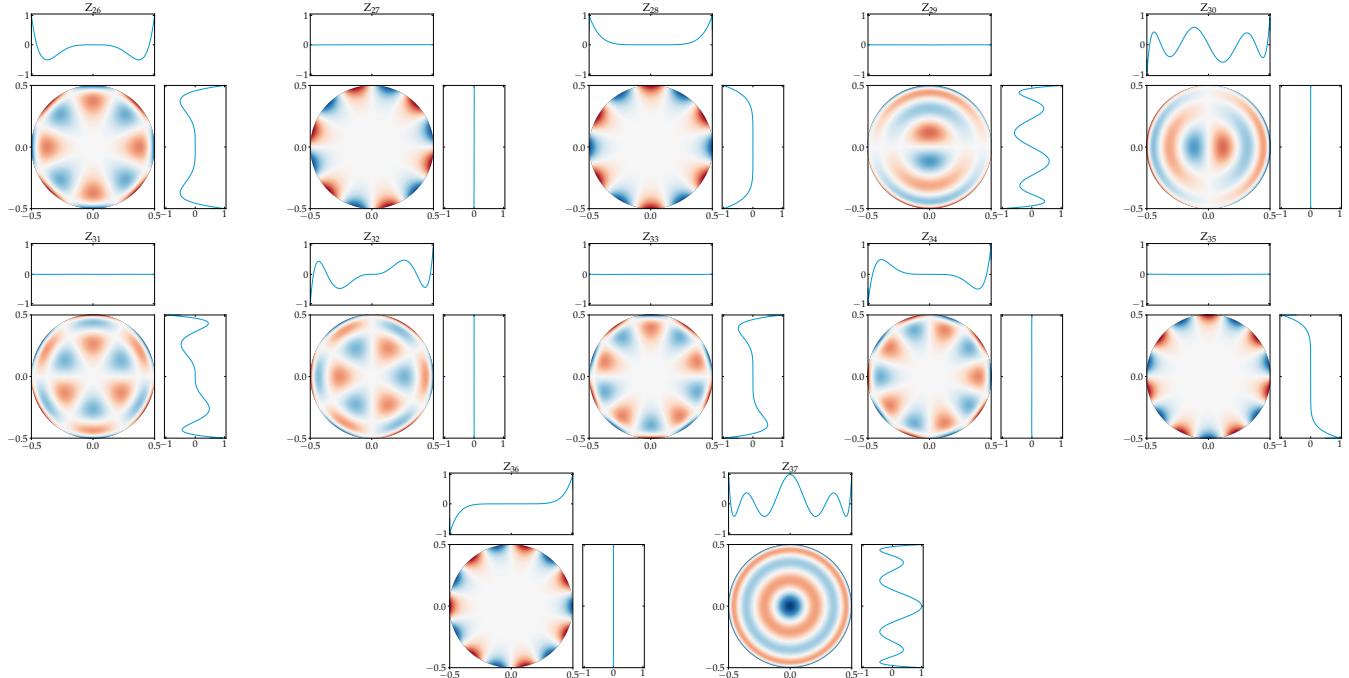
Grenoble, July 8, 2021.

References

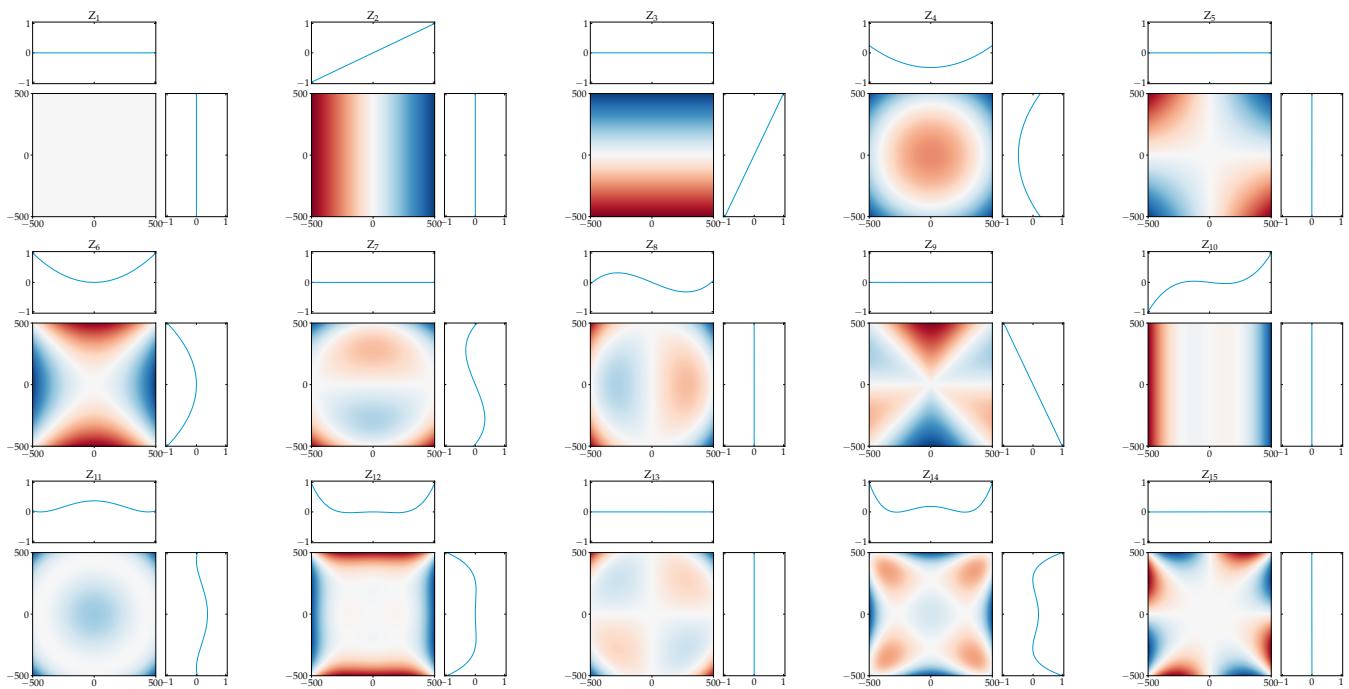
- [1] Virendra N. Mahajan, "Zernike Circle Polynomials and Optical Aberrations of Systems with Circular Pupils," *Appl. Opt.* **33**, 8121-8124 (1994)
- [2] Virendra N. Mahajan and Guang-ming Dai, "Orthonormal polynomials in wavefront analysis: analytical solution," *J. Opt. Soc. Am. A* **24**, 2994-3016 (2007)
- [3] Virendra N. Mahajan, "Orthonormal polynomials in wavefront analysis: analytical solution: errata," *J. Opt. Soc. Am. A* **29**, 1673-1674 (2012)
- [4] Virendra N. Mahajan, "Orthonormal aberration polynomials for anamorphic optical imaging systems with circular pupils," *Appl. Opt.* **51**, 4087-4091 (2012)
- [5] Jingfei Ye, Zhishan Gao, Shuai Wang, Jinlong Cheng, Wei Wang, and Wenqing Sun, "Comparative assessment of orthogonal polynomials for wavefront reconstruction over the square aperture," *J. Opt. Soc. Am. A* **31**, 2304-2311 (2014)

Zernike polynomials for circular aperture





Zernike polynomials for rectangular aperture



Legendre polynomials for rectangular aperture

