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# Adaptive Phase Aberration Correction In Multi Element

**phase aberration correction by correlation in digital ...** - phase aberration correction by correlation in digital holographic adaptive optics changgeng liu, xiao yu, and myung k. kim\* digital holography and microscopy laboratory, department of physics university of south florida, tampa, florida 33620, usa **adaptive phase aberration correction in multi-element ...** - bio automation, 2006, 5, 68 - 77 issn 1312 - 451x 68 adaptive phase aberration correction in multi-element synthetic aperture imaging systems vera behar institute for parallel ... **aberration correction using adaptive optics in an optical trap** - aberration correction using adaptive optics in an optical trap carrie voycheck, 2006 advised by daniel g. cole, research assistant department of mechanical engineering introduction the processing of optical trapping is extremely useful in the biological sciences for manipulating microscopic particles and organisms using laser light. **phase-aberration correction with a 3-d ultrasound scanner ...** - ivancevich et al.: phase-aberration correction with 3-d ultrasound scanner 1433 fig. 1. the volumetrics scanner uses a 2-d matrix array to image a  $65 \times 65$  pyramidal volume and can simultaneously ... **wavefront measurement using computational adaptive optics** - aberrations are modeled as phase variations in the imaging pupil,  $g(q,k)$ . this leads to an aberrated system transfer function via the autoconvolution operation, as indicated in eq. (5). b. aberration correction in computational adaptive optics, the aberrated system transfer function is corrected by multiplication with a phase-only filter **spherical aberration correction system using an adaptive ...** - adaptive optics [3] is a technique that allows dynamic correction of aberrations. it was originally developed for astronomy [4] but there are also applications in microscopy [5], the writing of 3d optical bit memory [6] and photo-fabrication [7]. as an active correction element, a micromachined dm [8] can be used to modify the phase of the beam. **adaptive correction of depth-induced aberrations in ...** - adaptive aberration correction first used in astronomy (tyson, 1991). however, there is significant loss of power due to both the continuous monitoring of the wavefront, and the liquid crystal modulator. in this paper we show a technique for dynamic specimen-induced spherical aberration correction without the use of a **adaptive optics aberration correction for deep direct ...** - adaptive optics aberration correction for deep direct laser written waveguides in the heating... 1 3 page 3 of 6 364  
aberration is larger and, hence, the focal distortion stronger, for the frequency-doubled wavelength as opposed to the fundamental wavelength of the laser. this can be understood, **adaptive wavefront correction in two-photon microscopy ...** - adaptive wavefront correction in two-photon microscopy using coherence-gated wavefront sensing markus rueckel\*, julia a. mack-bucher, and winfried denk department of biomedical optics, max-planck institute for medical research, jahnstrasse 29, d-69120 heidelberg, germany **three-dimensional motion correction using speckle and ...** - defocus and aberration correction in computed optical interferometric tomography. the first algorithm utilizes phase differences within the acquired data to correct for motion along the optical axis. the second algorithm utilizes the addition of a speckle tracking system using

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