

Diploma thesis abstract

“A human eye model based on flexible semipassive bimorph mirror”

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A human eye model based on flexible semipassive bimorph mirror is proposed. The eye model is able to reproduce temporal dynamics of monochromatic aberrations of human eye. It also provides high-precision calibration of ophthalmic devices and investigation of spatial properties of aberrations of human eye. Temporal dynamics of human eye aberrations and static eye models are discussed.

Furthermore spatial properties of human eye aberrations measured with human eye aberrometer based on Shack-Hartmann principle are discussed in this work.