Optical design with Raytracing

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Teaching staff

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Reception hours: Mon 11-13

Program of the course:

The course is an introduction to the design of optical systems with the use of raytracing codes

• Review of Gaussian optics
• Third-order optics and Aberration
• Optimization
• Tolerancing
• Multiconfiguration
• Macros & API
• Non-sequential systems / Straylight
Bibliography:

• Kingslake - Lens design fundamentals, SPIE Press, 2010
• Geary - Lens Design with practical Examples, Willmann-Bell, 2002
• Fest - Stray Light Analysis and Control, SPIE Press, 2013