The Einstein Telescope (ET) is a proposed underground infrastructure to host a third-generation, gravitational-wave observatory. It will achieve greatly improved sensitivity by increasing the size and implementing new technologies. In line with ET, the ECAP/work group of Stefan Funk takes an active part in developing a conceptual new phase camera, as a tool for monitoring and shaping the laser beam in the interferometer.

Master’s thesis

• Design and characterisation of a bench top optical interferometer as a light source for testing a new phase camera concept in the scope of the Einstein Telescope

Physics topics related to this work

• Gravitational-wave observatories
• Optics systems
• State-of-the-art electronics

Skills acquired during this work

• Hands-on lab experience
• Statistical analysis of data
• Programming in Python

Interested? Please get in touch!

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