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Tobias Hangleiter*

April 25, 2025

^{*} A LaTEX lover/hater

The kaobook class

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Part I

A FLEXIBLE PYTHON TOOL FOR FOURIER-TRANSFORM NOISE SPECTROSCOPY

Part II

CHARACTERIZATION AND IMPROVEMENTS OF A MILLIKELVIN CONFOCAL MICROSCOPE

Introduction 1



Characterization of electrical performance



Characterization and improvements of the optical path

OISE

Vibration performance





Conclusion & outlook 5



Part III

OPTICAL MEASUREMENTS OF ELECTROSTATIC EXCITON TRAPS IN SEMICONDUCTOR MEMBRANES

Part IV

A FILTER-FUNCTION FORMALISM FOR UNITAL QUANTUM OPERATIONS

