

Computational Physics 2023

Sommersemester, 3th April, 2023 – 14th Juli, 2023

- 1) Introduction
- 2) Numbers and errors
- 3) Differentiation and integration
- 4) Ordinary differential equations
- 5) Molecular dynamics simulations
- 6) Partial differential equations
- 7) Iteration processes
- 8) Matrixdiagonalisation & Eigenvalue problems**
- 9) Minimization
- 10) Random numbers
- 11) Monte Carlo (MC) Simulations
- 12) Perkolation
- 13) Stochastic Dynamics

**My eigenvalues have
strange patterns...?**



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