

# Computer simulations of physical phenomena

KL part: final presentation topics

- Differential evolution algorithm for optimization (optionally, diff. evo. vs gradient descent)
- Convex programming (already taken)
- Deutsch-Jozsa quantum algorithm
- Quantum Fourier Transform (optionally, basics of Shor's algorithm)
- Self-organizing fireflies like in here: [https://youtu.be/t-\\_VPRCtiUg?t=482](https://youtu.be/t-_VPRCtiUg?t=482)
- Quantum Error Correction

Contact me for further tips if you wish to choose any of these topics 😊