Computer simulations of physical phenomena

KL part: examples of final test questions

- Briefly describe the basic components of a genetic algorithm. For what type of problems can such an evolutionary approach be beneficial compared to a brute-force solution?

- How do eigenvalues of a matrix transform when its basis is changed?

- How many real numbers are needed to completely describe the state of a system of three qubits?

- What do we mean by "quantum advantage" in the context of quantum computing?