

## Chapter 12: The Quantum Approximate Optimization Algorithm

This section is already in the book plan, but it has not been written fully yet. The book owner can press Generate section to write this part with the language model connected to TheoryTrace.

Section plan:

Explains QAOA step by step: cost Hamiltonians, mixer Hamiltonians, alternating operators, circuit depth  $p$ , parameter landscapes, approximation quality, and the connection to adiabatic quantum computation.

### References

References will be added when this section is generated.

## Document information

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