Quantum Information and computing

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Exam assignment

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Exercise 1:

Study the work arxiv:1908.06101 about the implementation of qubits on a Rydberg platform (for a previous work with basic information about Rydberg systems you can look at arxiv:1707.04344).

Exercise 2:

Write a code to reproduce the dynamics of a set of Rydberg atoms which describe the gates introduced in the paper.

Exercise 3:

Test your code and check the robustness of your results by changing the experimental parameters used in the text.