

Quantum Information and Quantum Computation (Spring, 2016)

Download Lecture Notes (homeworks) in the instructor's English homepage:
<http://physics.whu.edu.cn/en/?q=node/112>

1 Schedule and Instructor

Time and Place: Tuesday, Class 6-8, I-3-304

Instructor: Yong Zhang.

- Office: 5-516, at the new building of the School of Physics and Technology;
- Email: yong_zhang@whu.edu.cn.

2 Lecture Notes

* [Zhang] Yong Zhang: the fifth version, online lecture notes on QIC

The teaching plan of this course is made in accordance with the main reference.

3 Main Reference

* [NC] Michael A. Nielsen and Isaac L. Chuang,

Quantum Computation and Quantum Information (Cambridge, 2000&2010)

4 References

* [Preskill] John Preskill (Caltech): online lecture notes on QIC (1997-present),
the link to Preskill's homepage

<http://www.theory.caltech.edu/~preskill/ph229/#lecture>

5 Homeworks

Nielsen and Chuang's problem sets or Preskill's problem sets.

6 Research Projects

Ask the instructor for it.

7 Evaluation

Homeworks(50%) + Final Exam(50%).

Final Exams $\begin{cases} \rightarrow \text{Open test.} \\ \rightarrow \text{Classnotes and homeworks.} \end{cases}$

Remark: How to learn Theoretical Physics?

It has nothing to do with your knowledge, only with your personalities:

$\left\{ \begin{array}{l} \text{Perspective: Focus on a small problem;} \\ \text{Persistence: Solve your problem completely;} \\ \text{Patience: Write down your solution step by step;} \\ \text{Power: Quote your references carefully.} \end{array} \right.$