Week 1 | Starting and Rhythm Establishment

2025-08-04 – 2025-08-10

1: Weekly Highlights

- Successfully applied for a personal domain name and built a personal blog website

- Course study: MIT OCW Quantum Mechanics 1–3; Basics of Qiskit (circuits/gates/measures)

- Project progress: Organized and summarized the experiment report on CNN optical flow algorithms

- Reading:《Semiconductor Spin Qubits》

2: Insights & Takeaways

-Gains: Preliminary understanding of the operating principle of quantum dots, and initial mastery of basic skills in front-end web development

- Reflection: Need to systematically learn prerequisite foundational courses such as electrodynamics and discrete mathematics

3: Challenges & Open Questions

- Unable to fully understand the reading of《Semiconductor Spin Qubits》due to a lack of necessary knowledge accumulation

- Reading impediments caused by differences in the notation system of papers

- Insufficient technical skills for website building, resulting in a necessary change in technical approach

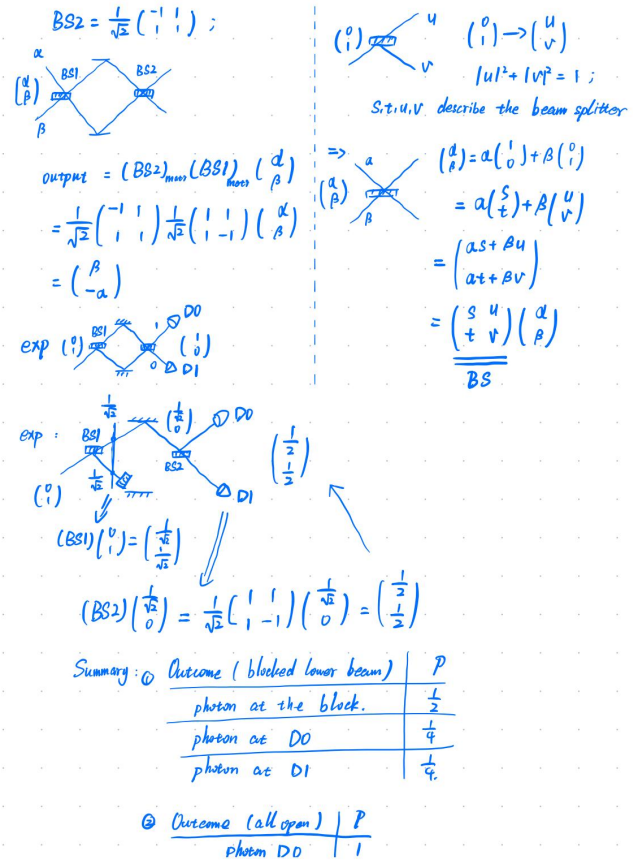
4: Next Week Plan

- Study MIT 18.06 Lec 1-3 and MIT 8.01SC Lec 2-10

- Complete learning and practice of NumPy vectors and matrix operations

- Continuously maintain the website

1. Example of notes:



2. The first page of blog website: