APPENDIX: SELECTED TOPICS

TIME PERMITTING, SOME OF THESE TOPICS WILL BE COVERED IN LECTURE.

1. **Measurement**
    Bomb Testing

2. **Quantum Cryptography**
    Symmetric vs Asymmetric ▪ Key Expansion ▪ Entangled Pair

3. **Quantum Games**
    Qubit Touchdown ▪ The Three Astronauts & Entanglement

4. **Realization**
    The DiVincenzo Criteria ▪ Photonic Qubits

5. **Quantum Complexity**
    The Complexity Zoo ▪ Query Complexity ▪ Communication Complexity

6. **Quantum Information**
    Dense coding ▪ Teleportation