From Bohr to Quantum Tech

Week 1
Newton’s Physics
Atoms
Light
Quantized Light
Brief History of Quantum Physics

Week 2
Strange World of Quantum
Wave Function and Heisenberg’s Uncertainty
Lake Como Conference
Fifth Solvay Conference
Physics Post Fifth Solvay

Week 3
Locality
Correlations in Nature
Einstein Podolsky Rosen
Two Slit Experiment
Quantum Parallelism and Schrodinger’s Cat

Week 4
Reminder of Quantum Parallelism
Einstein, Bohr and Quantum
Light Polarization and Correlations
Einstein Podolsky Rosen Revival
Photon Twinning Experiments
Quantum Cryptography

Week 5
What is a Computer?
Computers and Logical Gates
How do Computers Count?
Transistors and Integrated Circuits
Moore’s Law and the Future of Computing
Qubits and Counting with Quantum Computers