

ML4Q CERTIFICATE – LIST OF COURSES

WINTER TERM	
COLOGNE	
Quantum Information Theory	details
Topological Matter (and Quantum Computing)	details
Photons and Matter	details
Selected topics in Quantum Technology: e.g. Quantum Error Correction	details
Quantum Computing and Superconducting Qubits	details
BONN	
Advanced Atomic, Molecular, and Optical Physics	details
Advanced Topics in Quantum Optics	details
Advanced Topics in Photonics	details
Modern Spectroscopy	details
Ultracold Atomic Gases	details
Quantum Field Theory for Condensed Matter Physics	details
AACHEN	
Nano-optics I	details
Optical Methods	details
Physics of Interfaces	details
Quantum Optics	details
Topology in Condensed Matter Systems	details

SUMMER TERM	
COLOGNE	
Quantum Information Theory	details
Computational Many-Body Physics	details
Topological Matter (and Quantum Computing)	details
Photons and Matter	details
Selected topics in Quantum Technology: e.g. Quantum Error Correction	details
BONN	
Quantum Optics	details
Lasers and Photonic Devices	details
Advanced Topics in Quantum Optics	details
Advanced Topics in Photonics	details
Modern Spectroscopy	details
Quantum Field Theory for Condensed Matter Physics	details
Advanced Topics in Quantum Field Theory	details
Advanced Theoretical Condensed Matter Physics (?)	details
AACHEN	
Advanced Quantum Electronics	details
Atomically Resolved Microscopy and Spectroscopy with Electrons	details
Nano-optics II	details
Physics of Nanostructures	details
Quantum Error Correction (TU Delft)	details
Quantum Measurement	details
Spinelectronics	details
Spin Qubits	details
Topology in Condensed Matter Theory	details