

Summer Term 2022

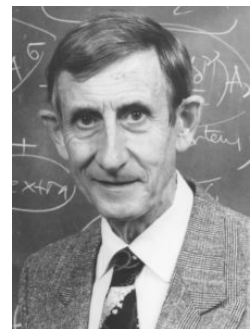
Quantum Field Theory

Lec.: Tue, 14 @ 46-270 & Thur, 8 @ 46-576, Ex.: Fri, 14 @ 46-576

First Lec.: April 26, 2022; First Ex.: April 29, 2022

Contents:

- Canonical field quantization
- Poincaré group
- Noether theorem
- Klein-Gordon field
- Maxwell field
- Dirac field
- Quantum electrodynamics
- Perturbation theory: Wick rule and Feynman diagrams
- Scattering processes: cross section



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