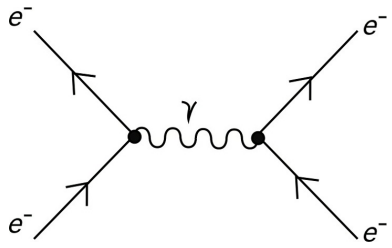
Kaiserslautern, October 26, 2020

Quantum Field Theory



Content

References

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- W. Greiner, *Relativistic Quantum Mechanics - Wave Equations*, Springer, 2000
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- W. Greiner and J. Reinhardt, *Field Quantization*, Springer, 2008
- H. Kleinert, *Particles and Quantum Fields*, World Scientific, 2016
- M.E. Peskin and D.V. Schröder, *An Introduction to Quantum Field Theory*, Cambridge University Press, 1995
- S. Schweber, *QED and the men who made it - Feynman, Schwinger, and Tomonaga*, Princeton University Press, 1994
- M. Veltman, *Diagrammatica - The Path to Feynman Diagrams*, Cambridge University Press, 1994
- T. Lancaster and S.J. Blundell, *Quantum Field Theory for the Gifted Amateur*, Oxford University Press, 2014

Organizational Remarks

- 4 hours lectures per week, 2 hours exercises per week
- 6 (8) ECTS credits for elective (in-depth) module
- Certificate for active participation:
  - 50 % points from all points of all exercise sheets
  - five times calculations at the black board / tablet
- Oral module exam possible