

Theoretische Physik 3

Quantenmechanik

SS 2017

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Oberassistent : Oleksii Gryniuk (mr.neuton@gmail.com)

Mi 12:00 - 14:00 (Minkowski)

Fr 8:00 - 10:00 (Minkowski)

website:

<http://wwwth.kph.uni-mainz.de/1832.php>

Schedule :

19/04, 21/04 :

wave function, statistical interpretation, probability, normalization, momentum, uncertainty principle

26/04, 28/04 :

stationary states, infinite square well

03/05, 05/05

harmonic oscillator, free particle

10/05, 12/05

wave packets, delta function potential

17/05, 19/05 :

finite square well and applications, WKB approximation

24/05, 26/05 :

Operator formalism

31/05, 02/05 :

Schrödinger's cat and kittens

07/06, 09/06

Schrödinger equation in spherical coordinates

14/06, 16/06 :

hydrogen atom, angular momentum

21/06, 23/06 :

spin, EPR paradox, Bell's theorem

28/06, 30/06 :

perturbation theory : time-independent

05/07, 07/07 :

perturbation theory : time-dependent

12/07, 14/07 :

quantum computing

01/08 : KLAUSUR (9:00 - 12:00)