Mathematical Methods of Modern Physics

Prof. Dr. Bernd Rosenow, SS 2024

For: Bachelor: Physics (6. semester) & IPSP (6. semester),

Master: Physics & IPSP & Mathematical Physics

Workload: 5 LP, 1 lecture (English) + 1 tutorial (English) per week

Exam: 1 exam (90 min), prerequisite is 50% of the points from the

weekly exercise sheets

Contents:

Complex analysis:

$$\int_{-\infty}^{\infty} \frac{1}{x^2 + 1} dx = 2\pi i \frac{1}{2i} = \pi$$

 $f'(z_0) = \frac{df(z)}{dz}\Big|_{z_0}$

 $\oint_{\gamma} f(z)dz = 2\pi i \sum_{k} \Gamma(\gamma, a_{k}) \operatorname{Res}(f, a_{k})$

 $f(z) = \sum_{n=0}^{\infty} b_n z^n$

· Distributions and Fourier transformation

$$G^<(k,E) = \int_{-\infty}^{\infty} \int_{\infty}^{\infty} \frac{1}{2\pi} \frac{e^{-ixk}e^{iEt}}{x-vt-i\delta} dx dt = 2\pi i \delta(E-vk)\Theta(-vk)$$

· Eigenvalues and eigenfunctions

Mathematical Methods Of Physics

JR Anderson

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