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

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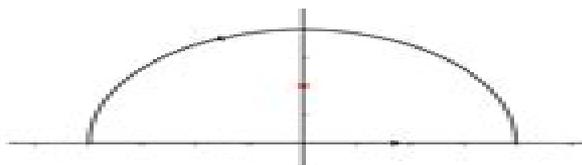
Contents:

- Complex analysis:

    - Holomorphic functions

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

    - Residue theorem

      $$\oint_\gamma f(z)dz = 2\pi i \sum_k \Gamma(\gamma, a_k)\,\mathrm{Res}(f, a_k)$$

    - Laurent series

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

    - Applications to real integrals

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

- 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

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