

# 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:

- Holomorphic functions

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

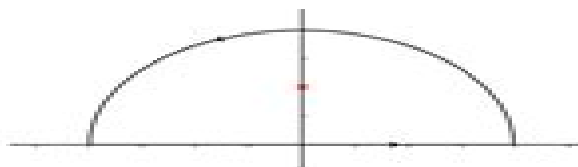
- Residue theorem

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

- 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

# Methods Of Modern Mathematical Physics

**Michael Reed, Barry Simon**



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