

Introductory Math Course for First-Semester Students of Physics as Main or Side Subject

In the time **October 7 through 11, 2024**, an introductory course of mathematics will be offered to first-semester students of physics as main or side subject (No. 16200 in the list of courses). It discusses the mathematical tools for the **starting lectures in experimental physics including the laboratory classes**. The course will be given in German language. The following topics are addressed:

- Angles, coordinate systems
- vector analysis
- elementary functions
- complex numbers
- power series expansion of functions
- differential calculus
- integral calculus
- simple examples of ordinary differential equations

The course comprises lectures and problems classes. The lectures are held in the morning, **8:15 to 11:45 am**, in **lecture hall H 19 (NW II)**, the problems classes in the afternoon, **1 to 4 pm**, in 3 groups (**H 16, S 70, S 72 [NW II]**); allocation will be done in the first lecture. Registration for the course is not required.

The lectures—not the problems classes—can also be attended online via BigBlueButton. The lecture notes (available in English or German language), the problems sheets (German only), and the BigBlueButton access data can be downloaded from

<https://www.agkador.phy.uni-bayreuth.de/en/downloads>

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