

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

In the time **October 9 through 13, 2023**, an introductory course of mathematics will be offered to first-semester students of physics as main or side subject (No. 14000 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 13 (NW I)**, the problems classes in the afternoon, **1 to 4 pm**, in 4 groups (**H 9 [NW I]**, **H 16**, **S 70**, **S 72 [NW II]**); allocation will be done in the first lecture.

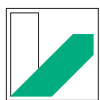
Registration is not necessary. The lectures—not the problems classes—can also be attended online via BigBlueButton:

<https://theobbb.phy.uni-bayreuth.de/b/pro-5se-8sb-r1t>

(access code 423463). The lecture notes (available in English or German language) and problems sheets (German only) can be downloaded free of charge from

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

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