

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

In the time **October 11 through 15, 2021**, 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). The course discusses the mathematical tools for the **starting lectures in experimental physics including the hands-on training 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 18 (NW II)**, the problems classes in the afternoon, **1 to 4 pm**, in 4 groups (H 18, H 16 [NW II], H 9 [NW I], and H 20 [NW II]). 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-rlt>; access code 423463). The lecture notes (available in English or German language) and problems sheets can be downloaded free of charge from

[www.agkador.phy.uni-bayreuth.de/de/downloads](http://www.agkador.phy.uni-bayreuth.de/de/downloads)

Contact: Dr. L. Kador, University of Bayreuth, Institute of Physics  
([lothar.kador@uni-bayreuth.de](mailto:lothar.kador@uni-bayreuth.de))

