

IWR Dune / PDELab Course 2017

March 6 – 10, 2017

Location, Schedule, Registration

The course takes place on the top floor of **Mathematikon Bauteil A, Im Neuenheimer Feld 205** (the southern-most of three very similar buildings). See the other side for a detailed schedule. Registration starts Monday at 08:45 in front of the seminar room.

Exercises / Labs

In order to give you a working DUNE environment that you can take home with you, you will work on your own laptop using a virtual machine. Please bring your laptop with VirtualBox (≥ 5.1) preinstalled, which you can download from <https://www.virtualbox.org/> (Windows, macOS) or install it using the package manager on most Linux distributions. If you are not able to bring a laptop, please contact us in advance.

If you have paid a registration fee, you will get a USB stick with the virtual machine image that you can keep; otherwise you will have to copy it to your laptop in the first lab session. You need 16 GB of free space for the image.

Lunch

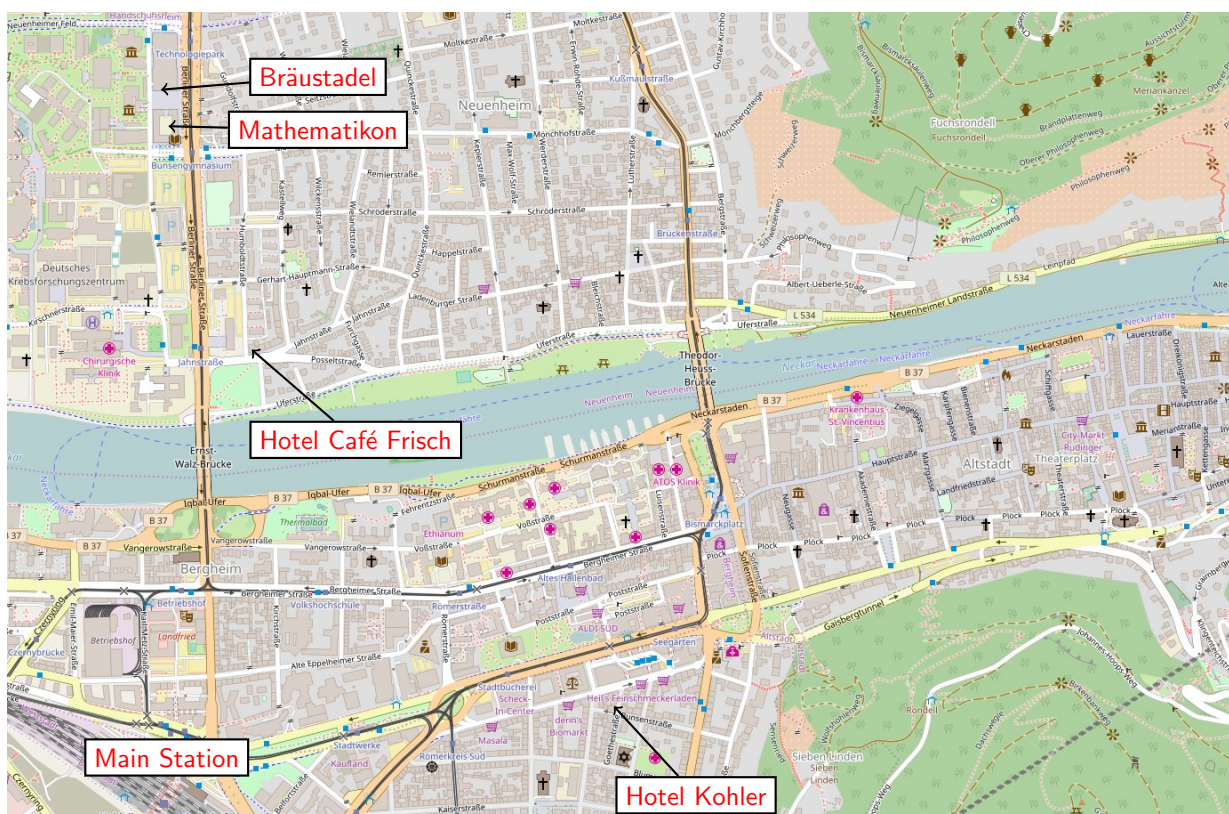
For our Lunch breaks we will go to the restaurant Bräustadel, Berliener Strasse 41, which is right next door to Mathematikon. Participants who have paid a registration fee will receive lunch vouchers. With those vouchers you get one of the weekly lunch deals, a small non-alcoholic drink and a dessert for free.

Social Event / Course Dinner

We will have a social event / Dinner for all participants on **Wednesday starting at 19:30**. Like the coffee breaks and the icebreaker, this will take place in the **Common Room** next door to the seminar room.

Note: The main entrance to the building is locked in the evening. If you are stuck outside, you can call the phone in the Common Room at +49 6221 54 14441.

Map



	Monday	Tuesday	Wednesday	Thursday	Friday
08:00					
09:00	08:45 – 09:15 Registration 05.104	09:15 – 10:45 The DUNE Grid API Christian Engwer 05.104	09:15 – 10:45 PDELab for Elliptic Problems Part I Peter Bastian 05.104	09:15 – 10:45 Solving Instationary Problems with PDELab Peter Bastian 05.104	09:15 – 10:45 Adaptivity in PDELab Ole Klein 05.104
10:00	09:15 – 10:45 Welcome Advanced C++ for Scientific Computing Olaf Ippisch 05.104	10:45 – 11:15 Coffee Break Common Room	10:45 – 11:15 Coffee Break Common Room	10:45 – 11:15 Coffee Break Common Room	10:45 – 11:15 Coffee Break Common Room
11:00	10:45 – 11:15 Coffee Break Common Room	11:15 – 12:45 Exercises 05.104	11:15 – 12:45 Exercises 05.104	11:15 – 12:45 Exercises 05.104	11:15 – 12:45 Parallelization with PDELab 05.104
12:00	11:15 – 12:00 Advanced C++ for Scientific Computing (continued) 05.104	12:00 – 12:45 Virtual Machine Setup on Participants' Computers 05.104			
13:00	12:00 – 12:45 Virtual Machine Setup on Participants' Computers 05.104	12:45 – 14:00 Lunch Bräustadel	12:45 – 14:00 Lunch Bräustadel	12:45 – 14:00 Lunch Bräustadel	12:45 – 14:00 Lunch Bräustadel
14:00	12:45 – 14:00 Lunch Bräustadel	14:00 – 15:30 Exercises 05.104	14:00 – 15:30 PDELab for Elliptic Problems Part II Peter Bastian 05.104	14:00 – 15:30 Solving Systems of PDEs with PDELab Steffen Mithing 05.104	14:00 – 15:30 Exercises 05.104
15:00	14:00 – 15:30 Exercises 05.104	15:30 – 16:00 Coffee Break Common Room	15:30 – 16:00 Coffee Break Common Room	15:30 – 16:00 Coffee Break Common Room	15:30 – 16:00 Coffee Break Common Room
16:00	15:30 – 16:00 Coffee Break Common Room	16:00 – 17:30 Introduction to Finite Elements Peter Bastian 05.104	16:00 – 17:30 Exercises 05.104	16:00 – 17:30 Exercises 05.104	16:00 – 17:30 Exercises 05.104
17:00	16:00 – 17:30 Introduction to Finite Elements Peter Bastian 05.104				
18:00	17:30 – 18:30 Icebreaker / Get Together Common Room				
			18:30 – 19:00 Dinner (19:30) Common Room		