

## Physical Limnology 2024

Workshop – Block Course

On the campus “Im Neuenheimer Feld” of the Heidelberg University.  
Building INF 229; seminar room 108/110

Schedule of lectures: 18<sup>th</sup> to 22<sup>nd</sup> March 2024

Start time	Mon	Tue	Wed	Thu	Fri
9:00-9:30	--	ExL	ExB	ExB	ExL
<b>9:30- 11:00</b>	<b>B1</b>	<b>L2</b>	<b>B5</b>	<b>B7</b>	<b>B9</b>
<b>11:15-12:45</b>	<b>L1</b>	<b>B3</b>	<b>A1</b>	<b>B8</b>	<b>L4</b>
14:15-14:45	ExB	ExB	ExB	ExB	--
<b>15:00-16:30</b>	<b>B2</b>	<b>B4</b>	<b>B6</b>	<b>L3</b>	--

B Dr. Bertram Boehrer (Helmholtz Centre for Environ. Res. – UFZ, Magdeburg)  
L Prof. Andreas Lorke (Rheinland-Pfälzische Univ. Kaiserslautern-Landau, Landau)  
A Prof. Werner Aeschbach (Univ. Heidelberg)  
Ex exercise group

**B1 - Stratification and circulation of lakes, Navier Stokes – eq.**

**B2 – solutes, solubility, electrical conductivity**

**B3 – density, stability and mixing, deep water renewal**

**B4 – surface waves, seiche, interfacial waves**

**B5 – Kelvin waves, gravity currents**

**B6 – internal waves**

**B7 – properties of internal waves**

**B8 - Permanent stratification, meromixis, climate sensitivity**

**L1 - Turbulence I: Introduction to turbulence**

**L2 - Turbulence II: Spectral characteristics and measurements**

**L3 - Turbulence III: Momentum and mass transport in turbulent boundary layers**

**L4 - Turbulence IV: Living in turbulence: biological – physical interactions**

**A1 – Tracers in Aquatic Environments**

Further Information:

<http://www.ufz.de/index.php?de=18470>

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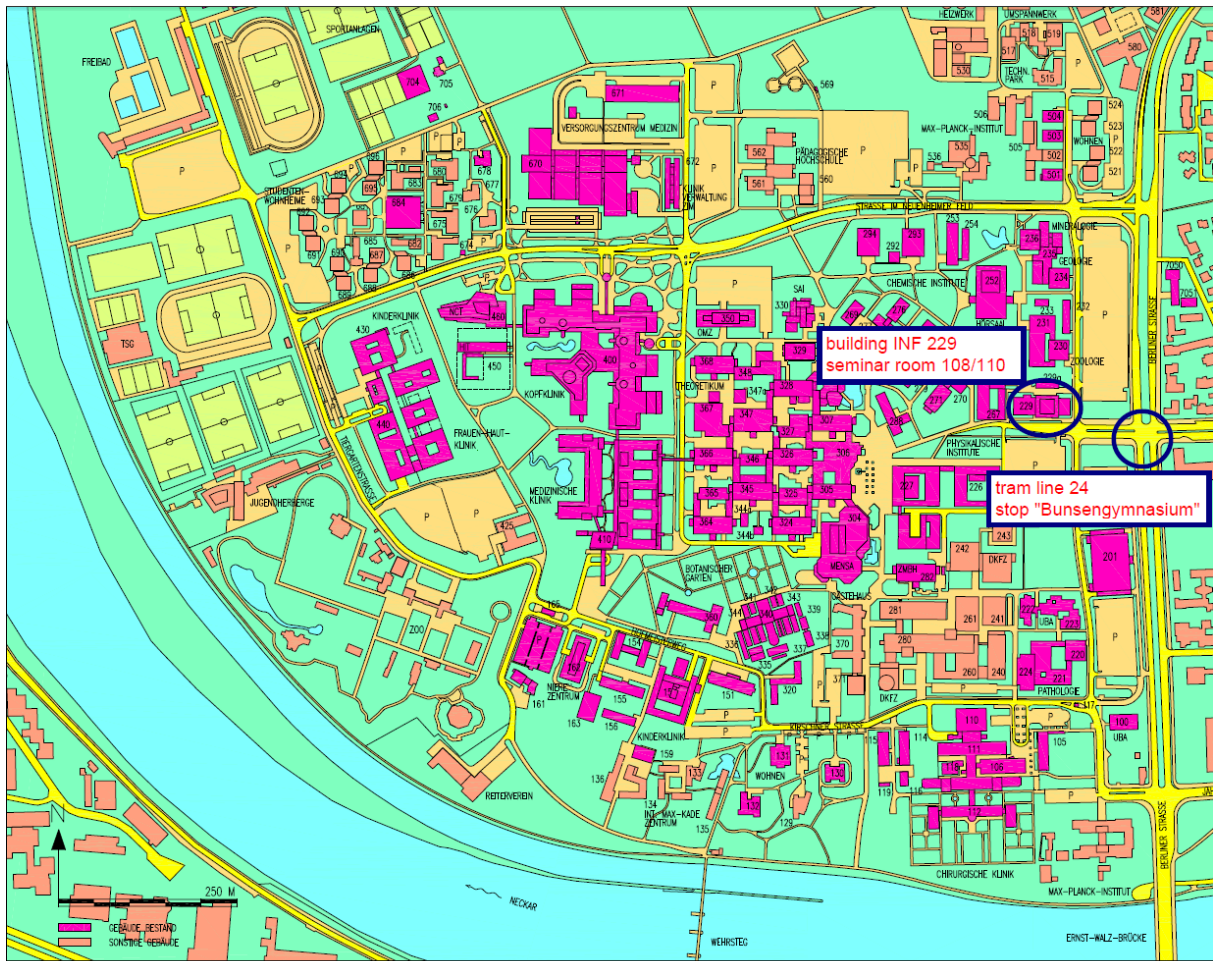
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