

## Höhere Analysis II: Partial Differential Equations

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### Lecture course:

Thursday: 9:15–10:45 h, Room 1.013 (Lecture hall 100, RUD 25)  
13:15–14:45 h, Raum 1.013 (Lecture hall 100, RUD 25)

### Tutorial:

Wednesday: 11:15–12:45 Uhr, Room 3.007 (RUD 25)

**Office hours of A. Mielke:** Thursday 15:00-16:00 h, Room 2.104 (RUD 25)

*Prerequisites for “certificate for tutorial” (Übungsschein):*

- 50% of oral exercises are “ticked” at beginning of tutorial hours,
- 50% of written exercises are solved, and
- active participation in tutorial (at least one exercise solved at the blackboard in both, first and second half of term).

## References

- [1] Lawrence C. Evans. *Partial Differential Equations*, volume 19 of *Graduate Studies in Mathematics*. American Mathematical Society, Providence, RI, 1998.
- [2] Fritz John. *Partial Differential Equations*, volume 1 of *Applied Mathematical Sciences*. Springer-Verlag, New York, fourth edition, 1982.
- [3] Jürgen Jost. *Partielle Differentialgleichungen*. Springer, Berlin, 1998. (analysis!).
- [4] Michael Renardy and Robert C. Rogers. *An Introduction to Partial Differential Equations*, volume 13 of *Texts in Applied Mathematics*. Springer-Verlag, New York, second edition, 2004.
- [5] Walter A. Strauss. *Partielle Differentialgleichungen (Eine Einführung)*. Vieweg, 1995. (many classical examples, less deep).