

# MM0508 Topologi I

## Ugeseddel 2

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The home page of this course can be found on Blackboard or directly on <http://www.imada.sdu.dk/~njn/MM508>

**In the lectures on Friday in week 45 and week 46** we have covered the following material: Metric spaces, open and closed subsets of metric spaces, and continuous functions on  $\mathbb{R}$  and on metric spaces. Further we have defined topological spaces. This corresponds to the pages 15–26 in the lecture notes and the two–pages note on continuous functions on  $\mathbb{R}$ .

**In the lectures in week 47** we shall recall the definition of topological spaces, investigate subsets of these, and discuss continuous functions on topological spaces.

### Exercises for week 47

- Remaining exercises from week 46. See the note from Philipp on the homepage.
- Additional exercises 9, 11, 12 (the drawing is on page 55 of the notes), 13.
- The exercise book: 3, 4 (second part)
- The lecture notes: Prove Proposition 2.5, 2.11, Discuss Example 2.17

Greetings Niels Jørgen