DM553 – Complexity and Computability – 2018
Lecture 9

Lecture, March 13

We finished chapter 4.

Lecture, March 15

We will begin on chapter 5, starting with section 5.3. We will skip the last part of section 5.1, having to do with reductions via computation histories.

Lecture, March 20

We will finish chapter 5. Then, we will begin on NP-Completeness. starting with section 7.3 in Sipser's book, introducing definitions and showing that 3-SAT and CLIQUE are NP-Complete. Note that some of this is also in chapter 34 in the CLRS book.

Problems to be discussed on March 21

1. Page 239: 5.3, 5.4, 5.5, 5.6, 5.9, 5.10, 5.11

2. Page 240: 5.16, 5.18

3. Page 241: 5.28.

Study group suggestion

Try preparing a presentation of the proof that the Post Correspondence Problem is undecidability.