

# Algebra 2010-Aalborg University

**8th Lecture:** Thursday October 7th, 8:15-12:00 at room G5-112.

- 8:15-8:45 Repetition from last lecture. Normal subgroups. Quotient groups of the integers. The multiplicative group of prime residue classes. Group homomorphisms (pages 64–70).
- 8:45-10:45 Work in groups. Exercises from [Lau], 2.11 (page 104): 19, 14, 13, 20, 21, 15 (iii).
- 10:45-12:00 Lecture: Group homomorphisms. The isomorphism theorem. Order of a group element (pages 70–73).

Best regards,

Diego Ruano