# Algebra 1 (2012)-Aalborg University
# Lecture 8, October 2nd

**8th Lecture:** Tuesday October 2nd, 8:15-12:00 at room G5-112.

- 8:15-8:45 Repetition from last lecture. Groups. Groups and congruences. The composition table. Associativity. The first non-abelian group. Uniqueness of neutral and inverse elements. Multiplication by $g \in G$ is bijective. Examples of groups (pages 50-57).

- 8:45-10:45 Work in groups. Work in groups. Exercises from [Lau], 2.11 (page 104): 1, 2, 3, A. If you solve all these exercises you may try to solve the ones you did not solve in the previous lectures

  Exercise A: Have a look to the Group and Group theory pages of wikipedia.

- 10:45-12:00 Lecture: Subgroups and cosets (pages 60-64).

Best regards,

Diego