

# Algebra 2010-Aalborg University

**14th Lecture:** Thursday November 4th, 12:30-16:15 at room G5-112.

- 12:30-13:00 Repetition from last lecture. Quotient rings (with Appendix A). Prime and maximal ideals. Ring homomorphisms (pages 116-120 and Appendices A1 and A2).
- 13:00-15:00 Work in groups. Exercises from [Lau], 3.6 (page 138): 6, 8 (i) to (iii), 9, 11, 21, 12, 13, 19, 15, 23 + some exercises from previous lectures that you did not solved yet.
- 15:00-16:15 Lecture: The unique ring homomorphism from  $\mathbb{Z}$ . Binomial formula in prime characteristic. Equivalence relations (pages 120–123 and Appendices A1 and A2).

Best regards,

Diego Ruano