

## DM208 – Fall 2012 – Weekly Note 7

### Exam problems

These will be available on the course page on Wednesday October 10 around 9.00 (possibly already the evening before, so look for them).

### Stuff covered in week 40

- Gomory-Hu trees. This is based on hand out material (Korte and Vygen Section 8.6) which was handed out on December 5th.
- Schrijver application 5.5 page 89. This is the Chinese postman problem. See also Jungnickel Section 14.5.
- Shortest paths in undirected graphs with negative edge weights. We showed how to reduce this problem to a minimum weight  $f$ -factor problem. Based on Jungnickel Section 14.6.
- Shortest paths with given parity of the number of edges in undirected graphs with non-negative edge-weights. Based on Jungnickel Section 14.6.

### Classes in week 41, 2012:

We will only use the first two hours on October 10 (at most)

- Intersection of 3 or more matroids is NP-complete.
- Exam problems from 2011.
- Discussion about the new exam problems in order to clarify any questions about the formulation you may have.