

# The transition from high-school to university in mathematics

Laura Fainsilber  
Chalmers, Göteborgs universitet  
Mattebron  
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# Transition

- focus mostly on engineering + science
- Transition **problem** ?
- Local/international :
  - Sweden (Mattebron), UK, Finland, USA ...
- Shifting the blame: students, school, university
- Complexity:
  - differences math at school / at univ

# What's the difference?

- New fellow students
- New place
- Autonomy
- New mathematical concepts/ techniques

# Imagine you're a student...

- What's in a book?
- No calculators / computers
- What does a teacher do?
- Lectures
- What is mathematics?



# What do we do?

- Intro courses at university
- Prep courses in schools e.g. Sweden, UK
- Students help pupils e.g. Intize,  
Renatesenteret.no mattecentrum.se
- School teacher in-service training  
e.g. Kleindagarna
- University teacher pedagogical training

- Swedish state: Mattebron
- Review courses on the net
- [mattebron.ncm.gu.se](http://mattebron.ncm.gu.se)
- Local projects 2006-2009, small now
- National meetings :  
18 nov, Stockholm: international (nordic)  
perspective  
Spring : Göteborg

# Themes for meetings

- Lectures and discussion : dialogcafé
- Examples of past themes :
  - New school curriculum
  - Didactic research on transition
  - textbooks
  - Kleindagarna
  - Less math-intensive majors
  - School projects and advanced courses
  - Students' knowledge at transition (förkunskaper)
  - **Suggestions for themes or activities**