

# **Thesis on External Range Reporting**

Agenda for April 26., 2016

## **Since last meeting**

1. Report
  - (a) Internal PST theory documented
  - (b) Experimental setup
  - (c) Related work halfway done
  - (d) Composite number lemma
  - (e) Figure in introduction
  - (f) Figure in model of computation
2. Coding
  - (a) Internal PST completed
  - (b) Stream experiment
  - (c) fanout size experiment
  - (d) buffer size experiment
  - (e) insert experiment
  - (f) Unsuccessful attempts at compiling I/O efficient R-trees
3. Experiments
  - (a) Best fanout and buffer size found
  - (b) Different stream types (re-)tested

## **Plan until next meeting**

1. Report
  - (a) Complete related work section
  - (b) Document more experiments
2. Coding
  - (a) Run more experiments

## **Questions and remarks**

1. Analysis in I/O Model versus RAM model.
2. Find missing Blankenagel article about XP-trees (ask Gerth).
3. Ask Lars Arge about source code for I/O efficient R-trees.
4. "in a galaxy far far away..."