

Exploiting graph structure to cope with hard problems  
Dagstuhl seminar 11182

**Tentative program**

**MONDAY**

**09:00:** Welcome and presentations of participants

**09:15 – 10:00:** Jesper Nederlof - *Solving connectivity problems parameterized by treewidth in single exponential time*

**10:00 – 10:30:** Coffee break

**10:30 – 11:05:** Charis Papadopoulos - *Characterising the linear clique-width of a class of graphs by forbidden induced subgraphs*

**11:05 – 11:40:** Yngve Villanger - *Minimum Fill-in of Sparse Graphs: Kernelization and Approximation*

**11:40 – 12:15:** Martin Milanic - *On hereditary efficiently dominatable graphs*

**12:15:** Lunch

**15:30:** Coffee and cakes

**17:00 – 18:00:** Open problems / common discussions session

**18:00:** Dinner

**TUESDAY**

**09:00:** Organisational announcements / voting on the social program of Wednesday

**09:15 – 10:00:** Ann Trenk - *The Total Linear Discrepancy of a Poset*

**10:00 – 10:30:** Coffee break

**10:30 – 11:05:** Elad Cohen - *Vertex intersection graphs of Paths on a Grid*

**11:05 – 11:40:** Yahav Nussbaum - *Recognition of probe proper interval graphs*

**11:40 – 12:15:** Tinaz Ekim - *Polar Graphs*

**12:15:** Lunch

**15:30:** Coffee and cakes

**17:00 – 18:00:** Open problems / common discussions session

**18:00:** Dinner

## **WEDNESDAY**

**09:00:** Organisational announcements / information on social program

**09:15 – 10:00:** Dieter Rautenbach - *Unit Interval Graphs --- A Story with Open Ends*

**10:00 – 10:30:** Coffee break

**10:30 – 11:05:** R. Sritharan – *Finding a sun in graphs*

**11:05 – 11:40:** Bernard Ries - *Colouring vertices of triangle-free graphs*

**11:40 – 12:15:** Wen-Lian Hsu - *PC-Trees and Planar Graphs*

**12:15:** Lunch

### **Social program:**

**13:30:** Bus departure to Trier

**13:30:** Hike departure

**19:00:** Dinner back in Dagstuhl

## **THURSDAY**

**09:00:** Organisational announcements

**09:15 – 10:00:** Pavol Hell - *Partitioning chordal graphs*

**10:00 – 10:30:** Coffee break

**10:30 – 11:05:** Pim van 't Hof – *Contracting graphs to paths and trees*

**11:05 – 11:40:** Daniel Lokshantov – *Contracting graphs to bipartite graphs*

**11:40 – 12:15:** Frederic Maffray - *3-colorable  $P_5$ -free graphs*

**12:15:** **Picture taking in front of the old building.** Lunch

**15:30:** Coffee and cakes

**17:00 – 18:00:** Open problems / common discussions session

**18:00:** Dinner

## **FRIDAY**

**09:00:** Closing comments / farewell

**09:15 – 10:00:** Feodor Dragan – *Graph classes, tree decomposition and approximation algorithms*

**10:00 – 10:30:** Coffee break

**10:30 – 11:05:** Elias Dahlhaus – *Minimal fill-in ordering of planar graphs in linear time*

**11:05 – 11:40:** Ragnar Nevries – *The dominating induced matching problem for hole-free graphs*

**11:40 – 12:15:** Free slot for talk (35 min)

**12:15:** Lunch

**Departure**