

Oberseminar Theoretische Informatik
Wintersemester 2008/2009

Michael Fellows

**The Complexity Ecology of Parameters:
Vertex Cover and Max Leaf**

Monday, November 10 at 2pm (c.t.)
in room 3319 (Ernst-Abbe-Platz 2, floor 3).

We have good machinery for solving optimization problems for graphs of bounded treewidth that works for many but not all problems. In recent years a number of parameterized intractability results have been shown, where the parameter is treewidth. This motivates looking at more restrictive structural parameters, such as bounded vertex cover number, or bounded max leaf number. For a concrete example, if the max leaf number is bounded by k , how does one optimally compute the bandwidth? The talk will report on two recent papers exploring this theme.

Homepage:

<http://theinfl.informatik.uni-jena.de/teaching/ws0809/oberseminar-ws0809>