

Oberseminar Theoretische Informatik
Wintersemester 2007/2008

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**A Linear Problem Kernel for Bounded-Degree
Deletion**

Mo, 28.01.2008 um 14 Uhr (c.t.) im SR 3319 (Ernst-Abbe-Platz 2, 3. Stock).

For a graph G and a parameter k , the NP-complete Bounded-Degree Deletion problem asks whether we can delete at most k vertices from G such that the resulting graph has a bounded degree, where the degree bound is constant. This problem generalizes the well-known Vertex Cover problem, which possesses a linear problem kernel. However, the techniques used for such a kernel have some fundamental restrictions that prevent their application on Bounded-Degree Deletion. Using a newly developed kernelization technique, we show how a linear problem kernel can be achieved for Bounded-Degree Deletion.

Internetseite der Veranstaltung:

<http://theinf1.informatik.uni-jena.de/teaching/ws0708/oberseminar-ws0708>