

Oberseminar Theoretische Informatik
Wintersemester 2006/07

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**Probe Matrix Problems: Totally Balanced
Matrices**

Mo, 27.11.2006 um 14 Uhr (c.t.) im SR 226 (Carl-Zeiß-Str. 3, 2. Stock).

Let M be a class of 0/1-matrices. A 0/1/*-matrix A where the *s induce a submatrix is a probe matrix of M if the *s in A can be replaced by 0s and 1s such that A becomes a member of M . Probe matrix problems are a special form of matrix sandwich problems. We show that for M being the class of totally balanced matrices, it can be decided in polynomial time whether A is probe totally balanced. On our route toward proving this main result, we also prove that partitioned probe strongly chordal graphs and partitioned probe chordal bipartite graphs can be recognized in polynomial time.

Internetseite der Veranstaltung:

<http://theinf1.informatik.uni-jena.de/teaching/ws0607/oberseminar-ws0607>