Technische Universität Dresden

tu-dresden.de/mathematik

Sommersemester 2026

Dresdner Mathematisches Seminar

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Fast algorithms for finding a saddlepoint

A (strict) saddlepoint of an n*n matrix is an entry that is simultaneously the (strict) maximum of its row and the (strict) minimum of its column. A 1991 algorithm by Bienstock, Chung, Fredman, Schäffer, Shor, and Suri finds the strict saddlepoint in O(nlogn) time, by performing a step akin to sorting n items. We show that this implicit sorting step can be avoided and the problem can be solved in (optimal) O(n) time.

Mittwoch, 24.06.2026, 17:00 Uhr – Willers-Bau, Raum A 124

Leitung: Prof. Dr. Manuel Bodirsky

Vor dem Vortrag findet **ab 16:30 Uhr** ein gemeinsames **Kaffee-/ Teetrinken** vor dem Vortragsraum WIL A 124 statt.

Stand: 11.05.2026