Seminar

**Fast Matrix Multiplication Algorithms**

The search for fast matrix multiplication algorithms started when Volker Strassen found a way to multiply 2x2 matrices using 7 (instead of 8) scalar multiplications [1]. Through recursive application, Strassen's algorithm multiplies n x n matrices in sub-cubic complexity.

Since then, multiple algorithms with successively lower complexity have been discovered.

The goal of this seminar topic is to give an overview of these fast matrix multiplication algorithms, focussing on the mathematical concepts relating to their inner workings and discovery.


**Advisors**

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