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INTRODUCTION TO MATRIX WEIGHTS AND THE A_2 CONJECTURE

Although recent developments related to sparse domination have helped us to simplify and shorten the proof of the A_2 theorem considerably in the scalar weight setting, the matrix A_2 conjecture has not even been solved, yet. However, recent results by Petermichl et al. are a big step forward towards finding a solution. In this talk, I will discuss some basic properties of matrix weights and the matrix A_2 class and the difficulties related to the matrix A_2 conjecture.