



**UNIVERSITÄT
BIELEFELD**



Faculty of Physics



Faculty of Mathematics



THE UNIVERSITY OF
MELBOURNE

Seminar

Bielefeld - Melbourne Random Matrices

Friedrich Götze

Bielefeld University

Extremal Singular Values of Sparse Random Matrices

We discuss results on the spectrum of sparse rectangular random matrices with independent entries. Recent results and underlying techniques to derive lower bounds as well as upper bounds for minimal resp. maximal singular values of sparse $n \times N$ random matrices are described in terms of minimal moment assumptions resp. truncated entries and sparsity fractions p_N of order N $p_N \sim \log N^\alpha$.

**Wednesday, 19 October 2022,
0900 hrs CEST**

Zoom Konferenzschaltung— Please contact Leslie Molag
(lmolag@math.uni-bielefeld.de) for details regarding access