



Seminar/Talk

TCS Seminar - Sharper Matrix Factorization Bounds for Differentially Private Continual Counting

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Host:

The lower-triangular all-ones counting matrix is a key primitive in differential privacy, and its factorization norms determine theoretical utility guarantees for private machine learning training with correlated noise. For more than three decades, the best known upper bound for these norms remained essentially unchanged, and recent work asked whether an explicit factorization could provably improve it. In this talk I present an explicit, efficiently computable construction that improves the longstanding bound, together with significantly stronger lower bounds, shrinking the remaining constant gap to a small margin.

Thursday, February 26, 2026 11:30am - 12:30pm

Office Bldg West / Ground floor / Foyer seminar room (I21.EG.128)



This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station.

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