

המחלקה למתמטיקה, בן-גוריון

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## קולוקוויום

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ביום שלישי, 24 בדצמבר, 2019

בשעה 14:30 – 15:30

ב-101 Math

ההרצאה

### and boundaries Arveson convexity, Matrix problems Tsirelson

חינתן על-ידי

Copenhagen) of (University On Dor Adam

linear free on McCullough and Klep Helton, Evert, of work Following **תקציר:**  
convex closed the is set convex matrix a when ask we domains, inequality matrix  
of version finite-dimensional a is This points. extreme (absolute) its of hull  
fail generally may which theorem, Krein-Milman non-commutative Arveson's  
In points. extreme (absolute) no have sets convex matrix some since completely  
given a for property Arveson-Krein-Milman the why explain will we talk this  
this that show we precisely, More determine. to difficult is set convex matrix  
equivalent is sets convex matrix of products tensor commuting certain for property  
weak This information. quantum from problem Tsirelson's of version weak a to  
Kirchberg, of results of combination a by shown, was problem Tsirelson's of variant  
conjecture; embedding Connes' to equivalent be to Ozawa, and Fritz al., et. Junge

algebras. operator in problems open important most the of one be to considered  
embedding Connes' of formulation equivalent another provide just than more do We  
Tsirelson weak of variants matrix-geometric new provides approach Our conjecture.  
than out rule to easier be may which polytopes, convex of pairs for problems type  
problem. Tsirelson weak original the  
Sinclair Thomas and Araiza Roy with work joint on Based