



Mathematics and CS Seminar

Proof of a Conjecture of Carbery

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Consider the L^p triangle inequality for functions, $\|f+g\| \leq \|f\| + \|g\|$, which is saturated when $f=g$, but which is poor when f and g have disjoint support. Carbery proposed a slightly more complicated inequality to take into account the orthogonality, or lack of it, of the two functions. With Eric Carlen and Rupert Frank it has now been proved. In fact, a much stronger version has been proved. Actually, Carbery was mainly interested in (non-commutative) matrices and traces instead of functions and integrals, so there is still much to be done.

A. Carbery, 'Almost-orthogonality in the Schatten-von Neumann classes', *J. Operator Theory* 62 (2009), 151158.

Thursday, May 17, 2018 04:00pm - 06:00pm

IST Austria Campus Big Seminar room Ground floor / Office Bldg West (I21.EG.101)



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