



## Seminar/Talk

## **Proof of a Conjecture of Carbery**

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Host: Robert Seiringer

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, ofthe 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

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



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