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UCLA. I am a Professor at the Department of Mathematics, UCLA. I work in a number of mathematical areas, but primarily in harmonic analysis, PDE, geometric combinatorics, arithmetic combinatorics,

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analytic number theory,  
compressed sensing, and  
algebraic combinatorics. I  
am part of the Analysis  
Group here at UCLA, and also  
an editor or associate  
editor at several  
mathematical journals.

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~~Terence Tao, University of  
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Tao, FAA FRS, is an  
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His areas of interests are  
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partial differential equations, algebraic combinatorics, arithmetic combinatorics, geometric combinatorics, compressed sensing and analytic number theory.

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is an Australian  
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beautiful but rather to say that the two work together like a charm.

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Terence Chi-Shen Tao FAA FRS  
(born 17 July 1975) is an

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Australian-American mathematician. He is a professor of mathematics at the University of California, Los Angeles (UCLA), where he holds the James and Carol Collins chair. His research includes



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topics in harmonic analysis,  
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together with some  
supplementary material, such  
as a section on prob-

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Terence " Terry " Chi-Shen  
Tao, FAA FRS, is an  
Australian mathematician.  
His areas of interests are  
in harmonic analysis,  
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Let  $f(x, y)$  be the 3  
function  $f(x, y) := x^2 + y^2$ .  
A common manoeuvre in

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## Real Analysis

analysis is to interchange two partial derivatives, thus one expects But from the quotient rule we have of  $o_y(x, y) = \frac{2xy^4 - 3xy^2}{(x^2 + y^2)^2}$  and in particular of  $-0(x, 0) = \frac{2 - 4}{1} = 0$ .  $X X y$  Thus  $o_{2f} o_{xoy}$

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$$(0, 0) = 0.$$

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Mathematics, UCLA, Los  
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address: tao@math.ucla.edu.



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Radon-Nikodym-Lebesgue

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x1.4 ...

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synonymous, though sometimes  
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“collections” to refer to proper classes also. Also, “collection” conveys a connotation that the elements of the collection are likely to be somewhat complex objects, such as sets or spaces, rather than

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