

TMS Committee 2018/19

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Find us

Visit our website or join our Facebook group to find out more information about upcoming events and the society.

tms.soc.srcf.net

Sponsors

We are proudly sponsored by Jump Trading and G-Research.



TMS Centenary

This academic year marks the 100th anniversary of the TMS, so look out for our special centenary event and dinner in Lent term.

Other things to get excited for include the revival of the Puzzle Hunt, as well as the continuation of excellent talks throughout Michaelmas and Lent.

The Winstanley Lecture Theatre

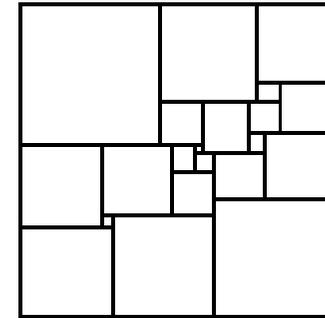
All of our talks are held in the Winstanley Lecture Theatre, Trinity College, unless stated otherwise.

Walk along Trinity Street to get to the Great Gate entrance of Trinity College. Opposite the Great Gate, there is a gate to Whewell's Court on the side of the street. After the first arch, go up the stone stairs and turn left at the second turn. Once you see some stairs on both your left and right, go up the stairs on the right and the theatre is through the doors.

If you cannot find it, then please ask the porters of Trinity College for directions.



Trinity Mathematical Society 2018 Michaelmas Termcard



The squared square, a square with integral lengths with small such squares, is the logo of the TMS. Can you work out how to do it?

The Trinity Mathematical Society, or TMS, was founded by a group of undergraduates at Trinity College, Cambridge in 1919 to promote a discussion about subjects of mathematical interest.

The society, we believe, is the oldest surviving subject society at university in the country. At this moment, we have over 800 members across Cambridge.

We hold numerous talks from esteemed academics and industry professionals, who give up an hour of their free time to explain a mathematical topic they are passionate about. We hope to see you there!

Events

Wednesday 3rd October, 7:30PM

TMS Freshers' Squash

Held in the Junior Parlour

Come and meet all the other freshers who share a common interest in mathematics! We'll have plenty of free snacks and drinks so please come along and enjoy yourselves!

Friday 12th October, 7:00PM

A Simple Proof of a Major Result

Prof. Béla Bollobás (DPMMS)

The solutions of highly rated problems that have remained unsolved for decades tend to be long and complicated. Although this is what we have come to expect, this is not always the case: occasionally a novel approach leads to a remarkably short and beautiful solution. In my talk I shall give a particularly striking example of a simple solution of a notoriously difficult problem emerging out of the blue.

Monday 22nd October, 8:30PM

Stein's Paradox

Prof. Richard Samworth (Statslab)

Stein's paradox is one of the most striking results in Statistics. Although it appears to be a toy problem in mathematical statistics, it turns out to have profound implications for the analysis of modern, high-dimensional data. I will describe both the result and some of its consequences.

Monday 29th October, 8:30PM

Film Night (TBC)

A chance to relax and watch a film with some relations to maths (film tbc).

Monday 12th November, 8:30PM

Approximation on the Real Line

Dr. Arieh Iserles (DAMTP)

The purpose of the exercise is simple, to design an orthogonal basis in the space of square-integrable functions on the real line such that the linear map taking the basis to its derivatives is skew symmetric. Such bases possess numerous advantages in the computation of ODEs and PDEs. In this talk, based on a joint work with Marcus Webb, I will completely characterise all such orthogonal systems using Fourier analysis and the theory of orthogonal polynomials. The extension of this work to complex-valued skew-Hermitian 'differentiation matrices' is trivial but it leads to a beautiful outcome, an orthogonal system of rational functions designed (in a different context) almost a century ago by Malmquist and Takenaka and which exhibits some truly miraculous properties.

Monday 19th November, 8:30PM

Title TBC

Prof. Michael Proctor (DAMTP)

Professor Michael Proctor is the provost of King's College and is a professor of astrophysical fluid dynamics, particularly interactions related to the magnetic field of the Sun, other stars and planets. Other interests include bifurcations, and pattern formations in dynamical systems with symmetry.

Monday 26th November, 8:30PM

TMS Call My Bluff

You?

An annual tradition, held by the TMS, in which a team of freshers test their lying capabilities against a team of other students in a reconstruction of the cult British TV show.