

ACADEMIC NEWS

DPMMS:

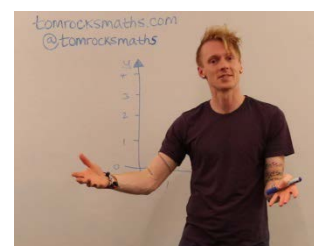
Professor Alan Baker (19th August 1939 - 4th February 2018)

It is with great sadness that we report the passing of Alan Baker, who was an Emeritus Professor in DPMMS and a Fellow of Trinity; and was awarded a Fields Medal for his fundamental contributions to the theory of Diophantine equations, especially his vast generalization of Gelfond's method for transcendence proofs. The influence of his theorem on the linear independence of logarithms of algebraic numbers on number theory is hard to overestimate. A [tribute to Alan Baker](#) can be read on Trinity College website.

DAMTP:

Former DAMTP PhD student Tom Crawford has recently published the following items on his [website](#):

- [Gallery of Fluid Motion video contest](#)- collaborative project between JFM and FYFD.
- [Funbers e](#) and [Funbers 3](#) - the next two episodes in the new series with BBC Radio Cambridgeshire.
- [VIDEO: what is the graph of x to the power x?](#)



DAMTP ACADEMIC VISITORS

The following academics will be visiting DAMTP:

| Visitor | Host or Research Group | Dates of visit |
|--|--------------------------------|--|
| Dr Yudong Cao (Harvard University) | Quantum Group | 15 th – 17 th February |
| Dr Yan Pautrat (Université Pars-Sud) | Nilanjana Datta, Quantum Group | 11 th – 14 th February |
| Professor Kate Reading | Carola Bibiane Schönlieb | 21 st February |
| Professor Samuli Siltanen (University of Helsinki) | Carola Bibiane Schönlieb | 21 st – 23 rd February |
| Dr Clement Surville (Univeristy Zürich) | Astrophysics Group | 12 th – 14 th February |
| Professor Andrea Walther | Carola Bibiane Schönlieb | 13 th – 16 th February |

ANNOUNCEMENTS

Call for Data Champions

Are you passionate about good research data management? Do you support FAIR (Findable, Accessible, Interoperable and Reuseable) research principles? Are you looking to boost your career with some peer engagement? The Research Data Facility at the Office of Scholarly Communication are looking for people who would like to volunteer to become Data Champions within their departments, institutes and colleges to provide local expertise about research data management (RDM) issues. You can find out more about the benefits of becoming a Data Champion [via the Research Data Facility website](#) and [apply via this form](#) – the closing date is *Tuesday 27th February*.

Data Protection Legislation – change in the law ALL STAFF

New data protection legislation, the General Data Protection Regulation (GDPR), comes into force on Friday 25th May 2018, replacing the Data Protection Act.

It is important that all staff understand the fundamentals of data protection legislation, and especially the GDPR. As such all staff are encouraged to read the [information published](#) by the University and the linked pages. Staff will be asked to complete an online University data protection training course later in the year.

Research Data at Cambridge University – survey RESEARCH STAFF AND STUDENTS

The University's Research Data Management Facility continues to work on improving the services we offer our research community and we need your input. By [filling the survey](#), you will help to develop the University's strategy for research data handling, one that reflects your researcher needs. Additionally, we will compare current research data management approaches at our University with other institutions around the world. To acknowledge your time, you can participate in a draw for one of three £50 Blackwell's bookstore vouchers if you complete the survey *before Monday 19th February 2018*. If you are interested in finding out about an innovative Data Champions programme at the University, please go to the [Research Data Management website](#).

Request for academic staff volunteers to be Reviewers

The Office of Student Conduct, Complaints and Appeals (OSCCA) are looking for academic staff who are willing to take a formal decision-maker role within the Review of University Bodies Procedure. This Procedure allows students to request a review of a decision made by a formal University body on limited procedural grounds. The type of decisions reviewed through this Procedure include exam allowances, extension decisions or Faculty Board decisions not to permit students to continue to Part III of a Tripos. Staff who volunteer for this role will be formally considered and appointed by the University Council. Staff who are appointed will receive a full briefing and ongoing support from OSCCA. A Reviewer might expect to receive 1-3 cases pa. To find out more information or to put yourself forward for the 'Reviewer' role, please contact [Sarah d'Ambrumenil](#), Head of OSCCA: telephone: (7) 65440.

STEP Support Programme Update

We're pleased to report that, following extensive publicity by the Faculty, colleges and Admissions Office, use of the new online STEP Support Programme has grown strongly this year. Between September 2017 - January 2018 the website has seen more than 80,000 downloads of the pdf assignments, compared to just under 30,000 in the same period last year (Sep 2016 - Jan 2017).

The main strand of the STEP Support programme consists of [online STEP preparation assignments](#). There are currently 44 assignment modules, consisting of structured mathematical problem-solving exercises leading to work on selected STEP questions. The resources in the online programme cover preparation for STEP I, II and III, and build students' advanced mathematical problem-solving skills. The programme therefore also benefits students who decide to apply for other mathematically-related subjects too.

To supplement and extend the online support available, we have also again invited every UK state-school student holding a conditional Cambridge offer based on STEP II and III (i.e. Mathematics and a small number of Computer Science offer-holders) to attend an optional STEP preparation day event too. Given numbers, we are repeating the same event on three separate days, on Tuesday 6th March, Thursday 8th March and Wednesday 14th March 2018, and we are very grateful to Churchill College for their generous support in hosting these days. Invitations were sent out to all 290 eligible students by the Cambridge Admissions Office on Monday 5th February, and responses are coming in rapidly, with 140 offer-holders registering last week,

Tripes Examinations HELPERS WANTED

The Mathematics Faculty needs help for the 2018 Tripos examinations (*Thursday 31st May to Tuesday 12th June*), as follows:

| |
|--|
| <i>Invigilators and / or attendants</i> for the Part III examinations |
| <i>Mark checkers for Undergraduate Tripos Examinations</i> are responsible for: <ul style="list-style-type: none">• checking that the examiner has not inadvertently left a mark unmarked.• checking that the marks are correctly added up and transferred from scripts to mark book to computer.• re-sorting scripts back into candidate number order. |
| <i>Mark checkers for Computational Projects</i> Essentially the same process as above but slightly different detail |
| <i>Script sorters</i> for the Mathematical Tripos and NST examinations are required between 31 st May and 12 th June. Scriptsorting takes places immediately after the exams and involves: <ul style="list-style-type: none">• checking there are no missing scripts• checking that students have filled in the cover sheets correctly• sorting the scripts into piles for each examiner to collect and mark |

Payments:

For invigilation and/or checking marks: £12.00/hour

For script sorting: office hours: £10.50/hour and evening hours: £20.00/hour

For being an attendant: £10.50/hour

The only qualification is reliability – this is obviously important work and if you say you will be available this is a firm commitment. You will be well briefed beforehand on what to do, but come and see us if you want further details now. The examinations take place this year from Thursday 31st May to Tuesday 12th June, and mark checking would be over by a week later. Even if you know you will only be available for part of this period, any help you can give would be greatly appreciated. Further information can be requested by e-mail: undergrad-office@maths.cam.ac.uk

Vice-Chancellor's University-wide consultation – Online questionnaire

The Vice-Chancellor would like to invite you to take part in an [online questionnaire](#) on key issues facing the collegiate University.

This questionnaire is part of */mycambridge/* a University-wide consultation. It comprises three key questions on which the Vice-Chancellor is seeking the views of all members of the University. The same set of questions will be discussed at the events scheduled for 5th February, 15th February and 20th February. (Please note that an additional two events will be scheduled in due course). You are invited to take part in both parts of the consultation. You have the option to respond to one or two questions, or to all three questions.

Your views will be treated anonymously and responses will not be attributed to individuals.

The questionnaire will be available *until Friday 16th March 2018*. The outcome of the consultation will be collected in a report and will inform further discussions with the University's decision-making bodies. The findings of the consultation will also be made available to all University members.

The Vice-Chancellor hopes that you will take this opportunity to help shape the future of this great University and is very much looking forward to hearing from you.

2018 L'Oréal-UNESCO for Women in Science UK & Ireland Fellowship Awards Programme

The 2018 L'Oréal-UNESCO for Women in Science UK & Ireland Fellowship Awards Programme is now receiving applications. They will be awarding five outstanding female early-career scientists a bursary of £15,000, which is designed to provide practical help to aid female researchers in continuing their cutting-edge research. The fellowship awards are open to female early-career researchers working in the field of life and physical sciences, engineering, **mathematics** and computer sciences. Applications need to be made online at [Women in Science website](#) by the deadline of *Friday 16th February 2018*.

EVENTS

Bite-Sized Training Sessions PROFESSIONAL SUPPORT STAFF AND PHD STUDENTS

Monday 19th February - Session 4. [Getting the best out of people](#)

The session summary reads: 'A common management challenge is knowing how to get the best from people and sometimes this can seem like figuring out rocket science. This session will look at different motivations and methods to build engagement:

- Push and Pull Factors in motivation at work.
- The link between engagement and motivation.
- Creating a motivational climate.'

This is the last bite-sized topic session this term. The purpose of this session is to take away tips for improvement and / or a greater understanding of the area which may lead to you attending a more in depth course. A sandwich lunch will be provided and there are spaces are still available! You can book a place at this session by using the link above.

Cambridge Science Festival - Hands-On Maths Fair

Saturday 24th March, 12noon – 4.00pm

As usual in the intervening years between the big Science Festival Maths Public Open Days, we are holding a large family maths event at the CMS for the Cambridge Science Festival, organised by the MMP. The [Hands-On Maths Fair](#) will be open to the public from 12 noon to 4pm on Saturday 24th March, with hands-on mathematical activities and games for all ages from 5+. All are welcome and no booking is needed - visitors can drop in throughout the afternoon. If you are interested in volunteering to help on the day, we will be circulating a call closer to the date for helpers / facilitators for existing hands-on activities.

Emmy Noether Society

Thursday 15th February, from 3.30pm - 4.30pm

Got the mid-term blues? Come and join the Emmy Noether Society in the CMS Core for tea and cake next Thursday. Members of the Society will be there with representatives from Ensoft with lots of delicious cake and drinks. Everyone is welcome.



Gates Cambridge Annual Lecture - What if...Gender equality could change the face of poverty?

Thursday 13th February, 6.00pm, St John's College

Sarah Hendriks, Director, Gender Equality, Bill & Melinda Gates Foundation

For more information and to book a place please look at the [Gates Cambridge Annual Lecture webpage](#).

PPD: Dignity at Work: A Guide for All Staff – Training Course

Friday 16th February, 9.30am – 1.00pm, at Greenwich House, Edmonton Room

This course is aimed at University Staff and there are still spaces available. Further details on this course, and how to book a place, can be found on this [training course link](#).

Seminar: Do Androids Dream of Electric Beats? Using Artificial Intelligence to Understand Music

Tuesday 20th February, 4.00pm in MR4, CMS

The speaker is *Martin Gould*, from *Spotify*. Martin is Senior Product Manager at Spotify UK. He joined Spotify via the acquisition of his music-technology startup, Sonalytic. Before Sonalytic he was a Postdoctoral Research Fellow in the Department of Mathematics at Imperial. He studied Part III of the Mathematical Tripos at the University of Cambridge, and earned his PhD in Mathematics at the University of Oxford.

Abstract: 'In recent years, an explosion of interest in machine learning and artificial intelligence has led to significant breakthroughs in countless industries. In this talk, we present some recent innovations that have helped to solve long-standing problems in the music industry, including personalised recommendation, the discovery of new music, and the classification of music using its audio content alone'.

GENERAL INFORMATION

CamSIS downtime

Staff using CamSIS should be aware that CamSIS will be unavailable between 5.00pm on Tuesday 15th February and 9.00am Tuesday 20th February due to maintenance work.

Cambridge Science Festival

The 2018 Cambridge Science Festival aims to 'makes sense of the world' we live in. The 24th annual two-week science extravaganza runs from Monday 12th March – Sunday 25th March and stages over 320 mostly free events, including talks, exhibitions, films, performances, and hands-on experiences for everyone of all ages. Bookings open on Monday 12th February at 11am. You can download the [full programme here](#). To pre-book events visit the [Cambridge Science Festival website](#) or call 01223 766 766.

Student Wellbeing website

The Student Wellbeing website aims to: encourage students to take responsibility for their own health and wellbeing; to empower students to seek help when they need it; and to support them to develop skills that will equip them not only for university, but for life more generally. A full list of the resources can be found on the [Student Wellbeing website](#).

The Rising Festival 2018

Saturday 10th March, 9.45am – 5.30pm

Celebrating International Women's Day, a day of self-care, workshops and open conversations to inspire you to create a healthy and happier life. Details on this event and how to book tickets are available on [The Rising Network website](#).



Twilight at the Museums A free night of exploration for families

Tuesday 13th February 2018, 4.30pm – 7.30pm

This February half-term explore 14 local museums and collections after dark, experiencing museums and collections in a different way. Twilight at the Museums is a free after-hours event for families where museums and collections across the city turn down the lights and open their doors for after-hours fun. A copy of the online [Twilight What's On programme](#) can be downloaded, or picked up from all participating museums.