

## Edinburgh Mathematical Society

### List of potential speakers for student maths societies and other outreach events

This list is maintained by the EMS Education Committee. People whose contact details appear here have agreed that they are willing to be contacted with invitations to speak. Please note that invitations should be made directly to the speaker and not through the EMS.

This list was last updated on 20 December 2013 by David Pritchard (david.pritchard@strath.ac.uk).

Dr Julio Andrade (Institut des Hautes Études Scientifiques; able to travel) julio.bueno.uk AT gmail.com

Topics: Prime Numbers and Physics [UG / general]  
Number Theory and Random Matrix Theory [UG / general]  
Riemann Hypothesis [UG]  
Noncommutative Geometry and Arithmetic [UG]  
Noncommutative Geometry Models in Particle Physics and Cosmology [UG / general]  
Geometry and Physics of Numbers [UG / general]  
Can you hear the shape of a drum? [UG / general]  
Can you hear the shape of the cosmos? [UG / general]  
Mathematicians look at particle physics [UG / general]  
The notion of space in mathematics [UG / general]  
What is the purpose of mathematics? [UG / general]  
Magic from Number Theory to Physics [UG / general]

Dr Andrew Baker (University of Glasgow) Andrew.J.Baker AT glasgow.ac.uk

Topics: Algebra, number theory, or algebtaric topology [UG]

Professor José Miguel Figueroa-O'Farrill (University of Edinburgh) j.m.figueroa AT ed.ac.uk

Topics: Geometry and Physics [UG / general]

See: <http://www.maths.ed.ac.uk/~jmf/Teaching/Talks.html>

Professor Graham Hall (University of Aberdeen) g.hall AT abdn.ac.uk

Topics: Relativity theory, astronomy and geometry [UG / school]

Dr Tim Johnson (Heriot-Watt University) T.C.Johnson AT hw.ac.uk

Topics: Probability and financial/actuarial maths [School (Highers or above) / mature lay audiences]

Mr Dimitris Kalogiros (University of Dundee) Dimitris.Kalogiros AT hutton.ac.uk

Topics: Analysis and interdisciplinary mathematics [UG / general]

See: <http://www.maths.dundee.ac.uk/info/index-dimitris.shtml>

Dr Jaroslaw (Jarek) Kedra (University of Aberdeen) kedra AT abdn.ac.uk

Topics: Geometry, topology, group theory

Dr Sergey Kitaev (University of Strathclyde) sergey.kitaev AT strath.ac.uk

Topics: Introduction to combinatorial methods [S4 to S6 / UG]

Selected topics in modern combinatorics [UG]

Professor Tom Lenagan (University of Edinburgh) tom AT maths.ed.ac.uk

Topics: Cryptography [UG / school]

Error-correcting codes [UG]

Totally nonnegative matrices [UG / anyone who knows about determinants]

Professor Lars Olsen (University of St Andrews) lo AT st-andrews.ac.uk

Topics: The prime number theorem [UG]

The Banach-Tarski Paradox [UG]

Professor Guenter Pilz (J. Kepler University, Linz; able to travel) Guenter.Pilz AT jku.at

Topics: Applications of abstract algebra to statistical tests in agriculture and medicine [UG / general]

Some very surprising results of mathematics [UG / general]

How to correct transmission errors automatically [UG / general]

General Discrete Fourier Transforms and applications [UG]

In addition to the people listed here there may be others who are willing to talk on topics not covered above. In particular, one speaker with an interest in the philosophy of mathematics (especially set theory), asked for his/her contact details to be excluded from the list. Please contact David Pritchard if you wish to know more. Please also contact me if you wish to be included on the list!