



© 1997–2009, Millennium Mathematics Project, University of Cambridge.

Permission is granted to print and copy this page on paper for non–commercial use. For other uses, including electronic redistribution, please contact us.

May 1998

Issue 5

Mike Yates looks at the life and work of wartime code–breaker Alan Turing. Find out what types of numbers we *can't* count and why there are limits on what can be achieved with Turing machines.



Quantum uncertainty

Quantum mechanics is the physics of the extremely small. With something so far outside our everyday experience it's not surprising to find mathematics at the heart of it all. But at the quantum scale nothing in life is certain... **Peter Landshoff** explains.



Light's identity crisis

What is light? Sometimes it seems wave–like and sometimes particle like. See how Einstein applied his theory of relativity to the problem, predicted that photons have no mass and laid the foundations for quantum mechanics.



Student interview – Alexander Langley

Alexander Langley is a first year BSc Maths student at Sheffield Hallam University. He talks about his interests and life both at school and university.



Career interview – Qualifications Manager

Karen Reid, whose hobbies include badminton and salsa dancing, is a Maths graduate. She works as a Qualifications Manager at RSA Examinations Board, Coventry and has also taught Maths.



Plus is part of the family of activities in the Millennium Mathematics Project, which also includes the NRICH and MOTIVATE sites.