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## Physics in Action

A limitless world awaits...

Five sessions of phenomenal physics will be brought to you by the brightest lights in the field. From the big bang to electric racing cars, rock guitar to astronomy, meet the physicists who go above and beyond science as we know it. A special session on examination success will provide students with the tools to excel.

- Big Bang
- Exploring the invisible universe
- How to build a quantum computer
- The physics of rock guitar
- Formula E - the future is here and it's electric!



University of Warwick,  
Coventry,  
CV4 7AL



**Venue: £19 +VAT \***

Plus one COMPLIMENTARY staff ticket per 10 students.

\*VAT may be reclaimable. Please check with your finance department

Education in Action is the leading provider of inspirational, informative, Education in Action study days for A-level, IB, BTEC and GCSE students.

Award-winning, world-class speakers

Cutting-edge content

Thought-provoking demos and presentations

Examination hints, tips and guidance

Modestly priced to offer access to all

Complimentary staff ticket for every 10 students booked

**Bookings can be amended up to 28 days before the event day**

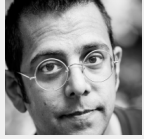
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# Physics in ACTION

## Big Bang / Simon Singh - Science Writer

Simon will tell the story behind one of the greatest questions in the history of humanity - where did the universe come from? Is the universe eternal or was it created? Is the Big Bang the answer?

After a PhD in particle physics, Simon joined BBC TV, working on Tomorrow's World & Horizon. His BAFTA-winning documentary on Fermat's Last Theorem led to a No.1 bestselling book. Simon has written four other books, presented radio & TV programs, and created a math website ([parallel.org.uk](http://parallel.org.uk)).



## The physics of rock guitar / Mark Lewney - Mathematician and physicist

In a mind-expanding and ear-stimulating session Mark will reveal how rock guitars make their distinctive sounds; how string vibrations might answer questions about the Big Bang; and, how the Large Hadron Collider (LHC) might let us peek into extra dimensions.

Dr Mark Lewney, the Rock Doctor, winner of the first ever FameLab competition and guitar physicist blows your ears with rock guitar and blows your mind with Superstring Theory.



## Exploring the invisible universe / Jen Gupta - Institute of Cosmology and Gravitation, University of Portsmouth

We see only a tiny fraction of all there is in our possibly-infinite universe. Jen will look at the universe in different wavelengths across the electromagnetic spectrum, and explore some of the unsolved mysteries facing astrophysicists and cosmologists today.

Jen Gupta is an astrophysicist who loves to talk about how awesome space is with anyone who will listen!



## Formula E - the future is here and it's electric! / Formula E racing teams

Join the electric revolution with Formula E racing teams this autumn, and discover the forces of physics at work that drive this incredible sport!

Here from the teams that drive Formula E to success! Discover the power of electricity and uncover the forces of physics at work to drive technological breakthroughs.



## How to build a quantum computer / Nic Harrigan - Physicist, PsiQuantum

Nic will show how weirdly powerful computers quantum computers will work, why you should care about them, and how they just might come into existence some day in the not-too-distant future.

With over 15 years exploring the mysteries of quantum mechanics and quantum computing, Nic is only a little less confused than he used to be... Along the way he's become adept at explaining the bizarre finer details, and how they might help find solutions to otherwise impossible problems.



## Education in Action

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