

# UK OUTREACH UPDATE

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# STFC –Science in Society grants

- ▣ Particle Physics related (~100 kEuros/year)  
(information from Neville Hollinworth)
- ▣ Several projects reported at previous meetings  
eg Accelerate, Colliding Particles, LHC sound ...

Today mention a few different types of projects

(UK PP groups are very active in outreach – not listed here)

# Super K Sonic Boooooom

By [Regine](#)  
on January 25, 2010 10:08 AM

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Photo credit: [Nick Ballon](#)

[Super-Kamiokande](#) (Super K) is an underground [neutrino](#) observatory in Japan. 1000 meters under the surface of the earth, a tank containing 50,000 tons of extremely pure water and surrounded by over eleven thousands golden photomultiplier tubes keeps watch for supernovas in our galaxy. The photomultiplier tubes register the amount of light created when a neutrino meets an electron of ultra-pure water. The encounter is marked by a real Sonic Boom, an explosion faster than the speed of the light. On the computer screens of scientists who study the phenomenon, a sonic boom looks like a ring of blue light that travel to the surface.

Scientists postulate that [neutrino](#), one of the most abundant building blocks of nature, can give us insights into the basic nature of matter, the universe, and the laws of physics. Yet, scientists know almost nothing about neutrino. As [David Wark](#), a physics professor at Imperial College London, [explained](#): "Just because a physical law takes place, it doesn't mean that it is obvious on a scale that we are built to comprehend. A human might have the same chance to understand the ultimate theory that my cat has to do calculus, but I hope not."



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Nelly Ben Hayoun QMUL

Taking bookings for Manchester Science Festival October 23-27



THE  
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# CERN@school

Home

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MBP2

• The Star Centre

- ☞ [Main Activities](#)
- ☞ [Our Aims](#)
- ☞ [LUCID](#)
  - ☞ [Design](#)
  - ☞ [Capability](#)
  - ☞ [Results, Analysis and Interpretation](#)
  - ☞ [Appendix](#)
- ☞ [Plasma Physics](#)
- ☞ [Faulkes Telescope](#)
- ☞ [CERN@school](#)
- ☞ [MBP Squared](#)
- ☞ [Blog](#)
- ☞ [Resources](#)
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Home ▸ LUCID

## Becky Parker - Canterbury

What Is LUCID? <http://www.thelangtonstarcentre.org>



What is Lucid?

LUCID is a commercial off-the-shelf cosmic ray detector. It will have many applications in the defence against single event upsets and in monitoring the human space environment.

It will form the heart of "CERN@school", a Langton Star Centre Project, which already involves 10 schools across Kent. We hope this national project will help inspire a new generation of physicists for the future

It will also provide high quality new and useful information about the subtler aspects of cosmic rays, including inclination and higher element intensities.

## Current News Items

- The 2010/2011 Roadshow
- Fee reduction, and funding opportunities for schools
- 2009/10 Roadshow report now available
- Newsletter #7 now out
- Fusion: extending University outreach
- The new SCI-FUN / FUSION website

## Archive News/Events

(click here)

# The 2010/11 Roadshow

## a brief introduction

The SCI-FUN Roadshow is taking its unique collection of interactive presentations and over forty hands-on exhibits to school groups and public events across Scotland in 2010/11.

We remain committed to the concept of taking the experience of a science centre to venues across the country.

During the course of our 2009/10 tour, we provided an online questionnaire for contact teachers to submit their opinions on various aspects of the Roadshow programme. We were successful in getting responses from the majority of these contacts, and used this information to compile our 2009/10 feedback report.



## How a visit works

Our equipment is transported in our 7.5 tonne lorry (shown above), from which we unload and set up the materials in an assembly or sports hall, usually in less

<http://www.scifun.ed.ac.uk/index.html>

Alan Walker – Edinburgh

# Particle-Physics Manager

LHC Startup Edition

<http://www.hep.ph.bham.ac.uk/ParticlePhysicsManager/index.php>

## Game

[Home](#)  
[Game outline](#)

## News

[Summer-Student Project](#)

## Development

[Technical history](#)  
[Useful links](#)

## People

[Contact us](#)  
[Acknowledgments](#)

Particle-physics manager is a strategy-based computer game, being developed to introduce school students and others to the aims and methods of high-energy particle physics. The game is designed to allow multiple scenarios, covering different historical periods.

In the LHC Startup Edition, the player takes overall responsibility for a large-scale particle-physics experiment at a new high-energy collider, similar to the Large Hadron Collider (LHC) at the European Laboratory for Particle Physics (CERN), Geneva. Aiming to make optimum use of the available resources, the player manages the experiment's activities from detector design to data analysis, having as top priority the discovery of the Higgs Boson, but keeping an eye open for other exciting physics opportunities.

A first release of Particle-Physics Manager is expected around September 2010, and will be freely available for download from this website. Please [contact us](#) if you'd be interested in volunteering as an early play tester.

**Cristina Lazzeroni - University of Birmingham**

Last modified: 02 Feb 2010 17:22:10

Particle Physics Manager - Prototype Shell

### Theory Group

Current Researching: Higgs Theory

### Experimental Group

Current Researching: Multivariant Analysis

### Technical Group

Current Researching: The Grid

### Finance

Annual Budget: 187m  
Budget remaining: 87m

Misc. Funding Body

Contribution: 45m  
Happiness: 87%

# SIXTY SYMBOLS

Videos about the symbols of physics and astronomy

\* = recently updated

Ed Copeland  
Nottingham

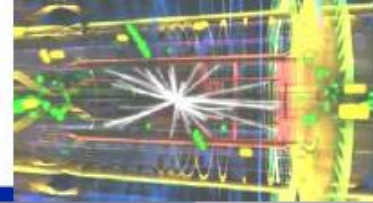
More symbols Planets Scientists Project Links Images Twitter Blog Facebook Rss



<http://www.sixtysymbols.com/>

[http://www.youtube.com/watch?v=\\_NMqPT6oKJ8](http://www.youtube.com/watch?v=_NMqPT6oKJ8)

(300,000 viewings)



# ATLAS at Think Tank museum in Birmingham - UK

Claudia Marcelloni and Neal Hartman





the



INVITATION

Launch Event

Thursday 28 Oct 2010

6:00pm - 8:00pm

Millennium Point

Birmingham

B4 7XG



ART of



 ATLAS  
EXPERIMENT

ATLAS



 thinktank  
Thinking about the world differently