



EXPLORE YOUR UNIVERSE

ATOMS TO ASTROPHYSICS

Presenting your science to the public

Link it to your audience

- Hook
- Examples and anecdotes
- Pictures and images
- Audience participation
 - Quiz / hands up
 - Volunteer
 - Groups and discussion
 - Activity



Different people see things differently





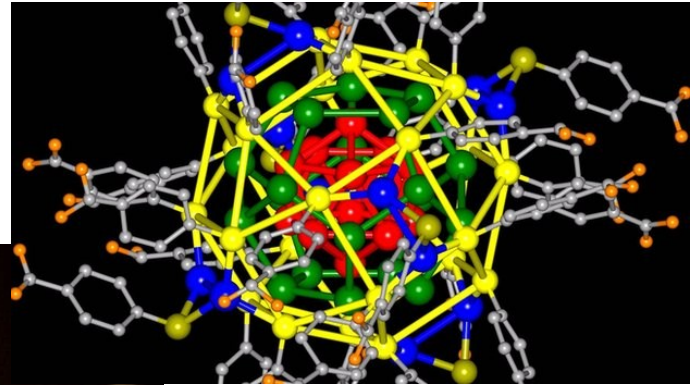
Science & Technology
Facilities Council

EXPLORE
YOUR UNIVERSE
MASTER CLASS

From BBC News, yesterday



LADEE space launch, NASA



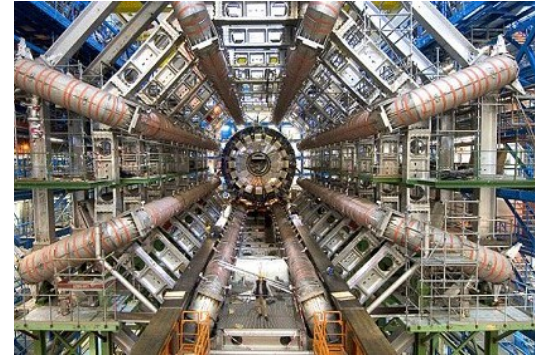
Silver nanoparticles, Nature



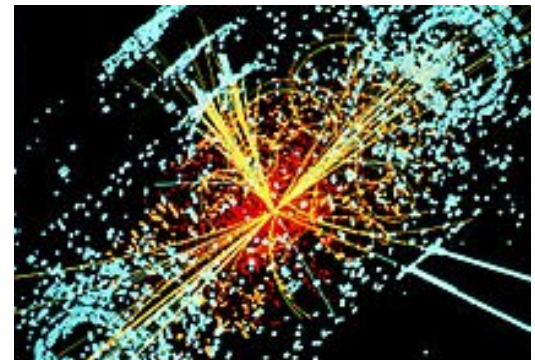
Particle Racetracks



Diamond Light Source



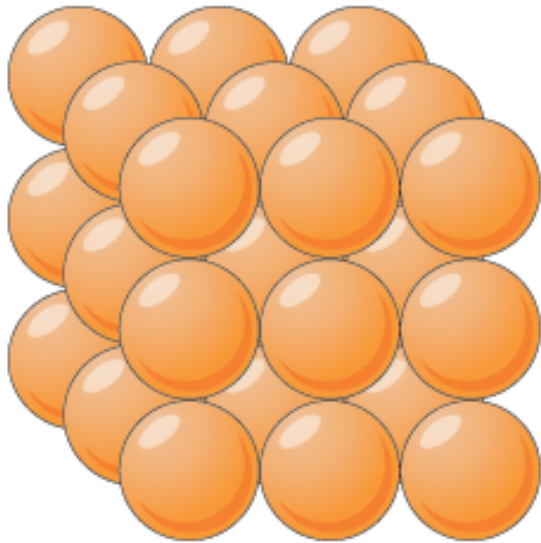
ATLAS detector - Cern



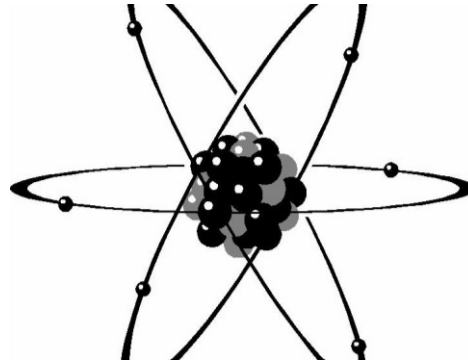
Particle collisions



What is the smallest thing you can think of?

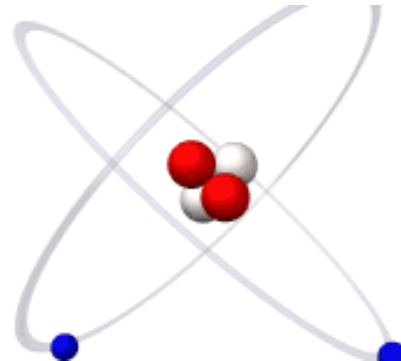


***Everything is made
out of atoms***



Atoms are not as small as it gets

**What is 'stuff' made
from?**



Helium Atom

What is the charge of:

A proton?

A neutron?

An electron?



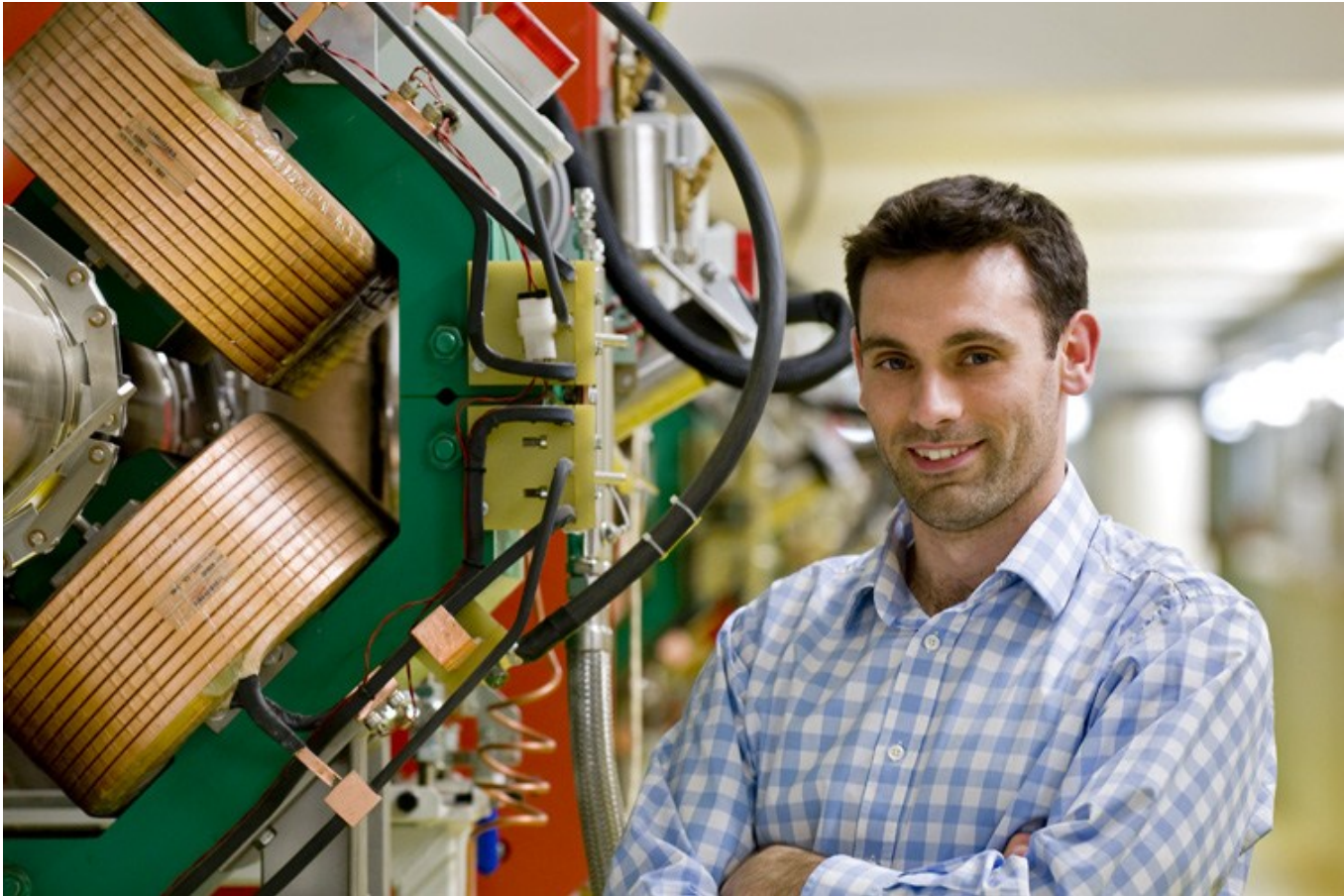
Ferrofluids



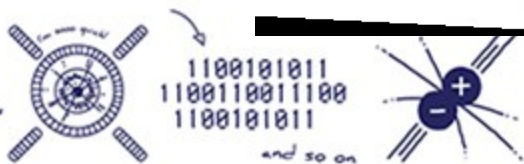
<http://www.youtube.com/watch?v=WXvar-4M6VA>



It could be you



Examples of nice kit to demonstrate scientific phenomena



Now it's your turn...

In groups of 8-10 make a plan for:

- Interactive talk
- Table-top demonstration
- Classroom activity
- Family workshop
- Etc! (but NOT a lecture!)

You have 20 minutes

1 or 2 people to present back at the end

Family audience

Adult public audience

Primary school assembly

A Level (age 17-18) physics students

GCSE (age 15-16) science students



Live near a Science Centre?

The following science centres are part of the Explore Your Universe programme and would be happy to hear from you!

Centre	Location
At-Bristol	Bristol
Catalyst	Cheshire
Dundee Science Centre	Dundee
Glasgow Science Centre	Glasgow
Intech	Winchester
Observatory Science Centre	East Sussex
Our Dynamic Earth	Edinburgh
Royal Museums Greenwich	London
Satrosphere	Aberdeen
Science Oxford	Oxford





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