

IOP | King's Cross

Building the Universe One Block at a Time

**Uncover the secrets of the atom
in our free temporary exhibition,
developed by the University of York.**

4 – 27 February 2020

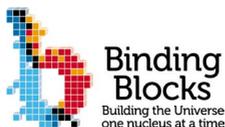
Monday – Friday 10am–6pm

Exhibition closed: 11 and 13 February

Institute of Physics,

37 Caledonian Road, London N1 9BU

iop.org



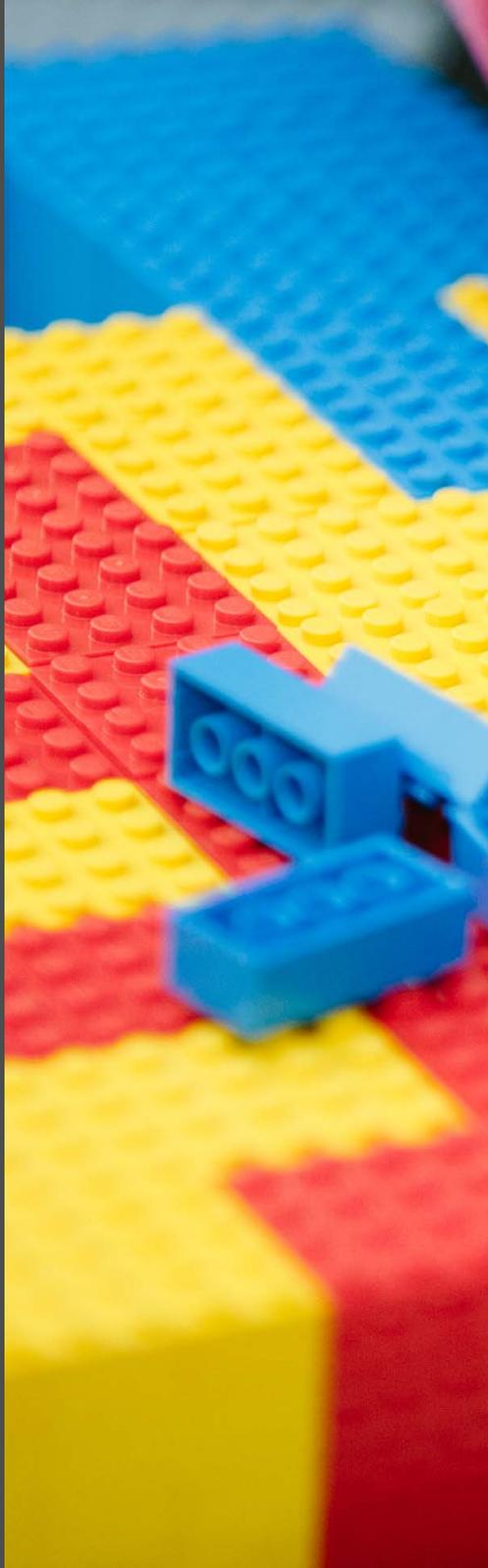
IOP Institute of Physics

Explore the Universe... using LEGO®!

From the stars, to medicine, to electricity generation, discover how nuclear physics has shaped the world around you. Featuring a 7-metre long LEGO® model containing over 25,000 LEGO® bricks, this exhibition explores inside the atom. Join the Binding Blocks team from the University of York's Department of Physics and see the elements like never before. You'll even have the chance to see the nuclear chart in the virtual world of Minecraft.

This pop-up exhibition will be on show at our flagship King's Cross building during February 2020 and is recommended for ages 12+.

For more information about the Binding Blocks project visit york.ac.uk/physics/bindingblocks



Events programme

All events are free and take place at our flagship King's Cross building. If you have any questions or would like more information, please contact exhibitions@iop.org or call **020 7470 4915**.

Thursday 13 February

Evening talk and exhibition late opening:
Atomic Nuclei: how many, how big,
how old?

Dr Arnau Rios Huguet, Department of Physics,
University of Surrey

6.30 – 8pm (please note the exhibition is closed during the day on 13 February)

How can looking inside the atom tell us about some of the biggest things in the Universe? How does chemistry work? The answers to this are held in the tiny core of the atom, the nucleus. In this talk, we'll go on a guided tour of the elements, explore their nuclei and how they behave. Discover how understanding atomic nuclei helps us understand some of the biggest questions in physics.

Tuesday 18 February

Family Day: Building the Universe
One Block at a Time
10am – 4pm

Join us for a day exploring the building blocks of our Universe with hands-on activities for all the family. Play games on our iPads, find out about the life of a star through storytelling, get involved with craft activities, quiz our

nuclear physicists, and venture into virtual worlds in Minecraft.

This event is recommended for families with children aged 7 and above.

Tuesday 18 February

Evening talk and exhibition late opening:
From the Big Bang to the Current Universe:
exploring the visible matter surrounding us

Dr Rachel Montgomery, School of Physics
and Astronomy, University of Glasgow

6.30 – 8pm

Atomic nuclei make up almost all of the visible matter surrounding us, spanning from the molecules of our very own DNA, to the elements which make up stars and galaxies. Nuclear physicists are striving to understand how nuclei are formed, how they behave and the complex ways in which they are held together. Explore the exciting field of nuclear physics and find out about current work trying to recreate the conditions of the Universe just after the Big Bang.

For full events information and to register, please visit iop.org/BuildingTheUniverse

This February, find out about the building blocks of our Universe and discover exciting research being carried out at the University of York.

Explore our new exhibition! An expert explainer will be on hand throughout half term (17-21 February)

Two special evening openings (13 and 18 February) with expert talks and scientists to answer your questions

Family Day during half term (18 February) with free activities for the whole family