



Motivation

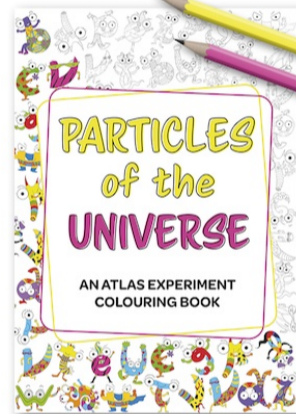
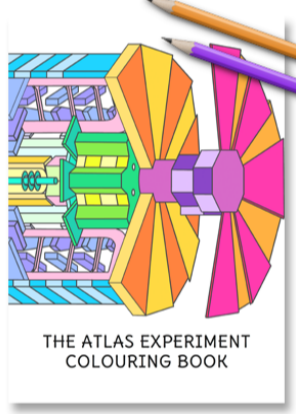
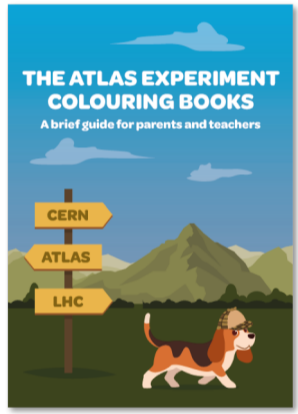
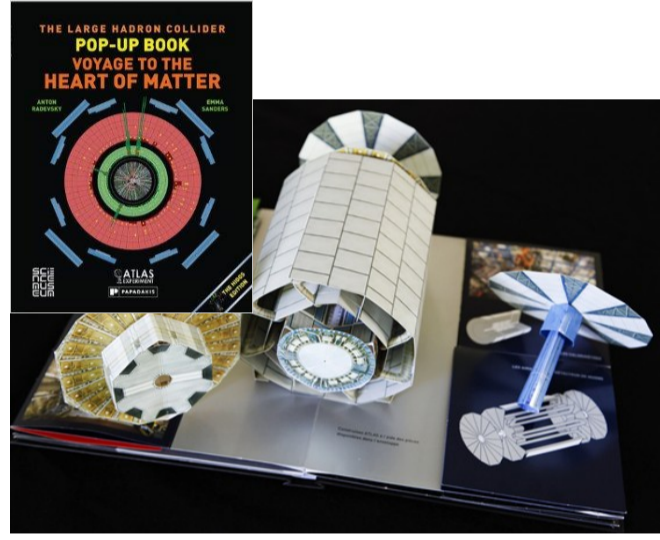
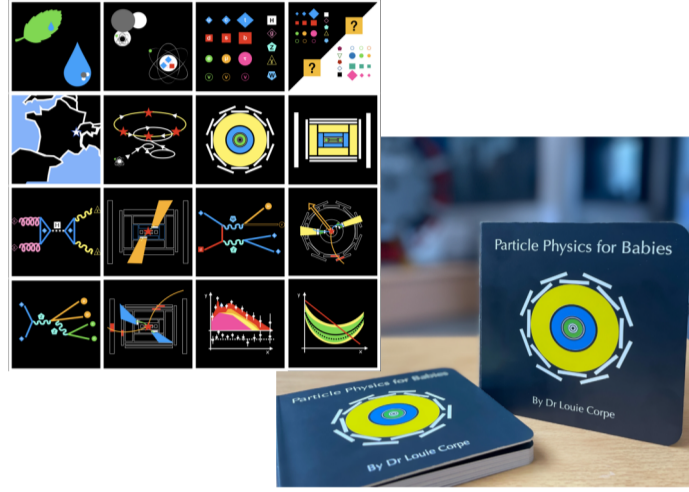
- Students of all ages/levels can benefit from **resources for learning particle physics**
- **Aim to bring the excitement** of scientific exploration and discovery into classrooms
- Interactions between particle physicists and students are extremely beneficial on both ends
- Early engagement results in better **awareness** of physics and higher **diversity** in the field
- ATLAS has a wide variety of activities and resources targeting children

Yeah!



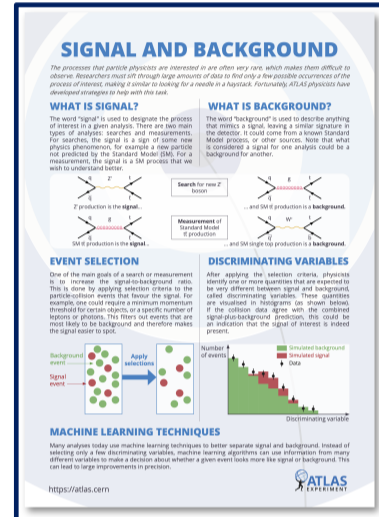
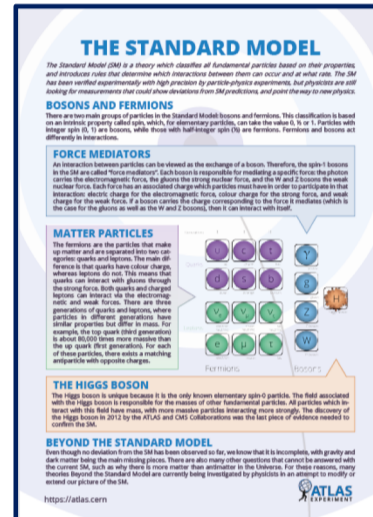
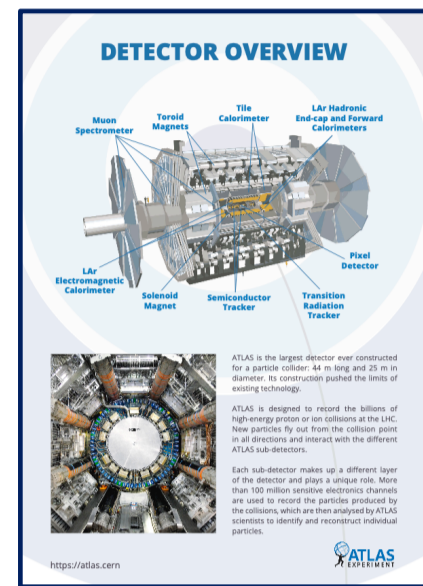
Books

- **Book for babies:** high-contrast images designed to help babies develop focus and eyesight
- **Pop-up books**
- **Colouring books:** about ATLAS detector, collaboration, and Standard Model introduced as Particle ZOO
- PDF available online for free



Printables

- **10 fact sheets** currently available with facts about ATLAS detector, collaboration, and physics program



- **6 cheat-sheets** with physics concepts such as the Standard Model or how to do a physics data analysis

- **seasonal activities**



In the back you can write the particle name, mass and electric charge. Do you still remember them from the colouring books?

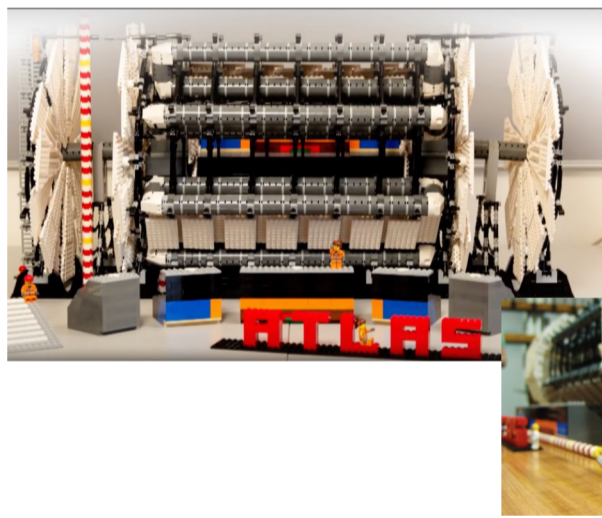
Elementary Particles Decorations

Physics Presents Tags

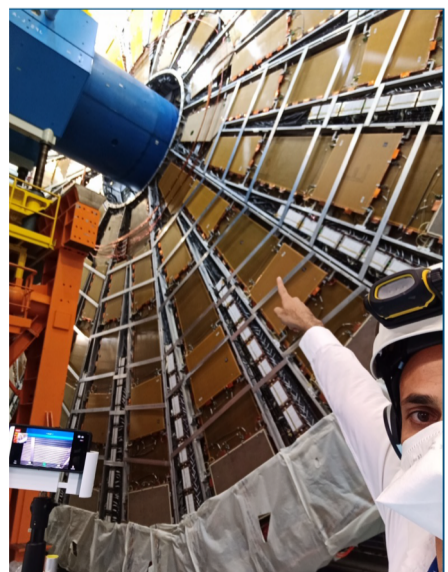
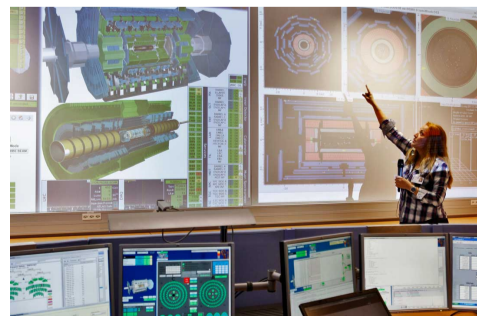


Engaging activities

- Fun and educational group activities like **Lego model** and **ATLAScraft**



- **Virtual visits:** remote connection to a worldwide audience from underground or ATLAS Visitor Centre using Zoom



Masterclasses

- Be a **particle physicist for a day** at a nearby university or research center by participating in a hands-on **analysis of real ATLAS data**
- Participate in an **international video conference** to discuss results and interact with physicists

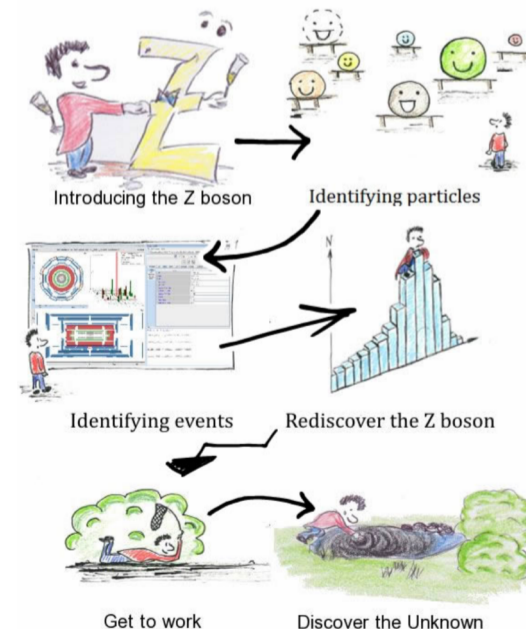


HIGH SCHOOL STUDENTS DISCOVER THE WORLD OF PARTICLE PHYSICS

Each year more than 13.000 high school students in 52 countries come to one of about 200 universities or research centres for one day in order to unravel the mysteries of particle physics.

Are you interested in participating?

FOR 15- TO 19-YEAR OLD STUDENTS HELD AT UNIVERSITIES AND RESEARCH LABS WORLDWIDE ORGANIZED EVERY YEAR IN MARCH/APRIL



Multilingualism

All educational material is made available to many readers through translation

- “ATLAS Experiment” (“Particles of the Universe”) colouring book available in 21(11) languages
- Fact and cheat sheets are available in up to 7 languages
- Virtual visits in ~10 different languages every year

