



Engaging the Classroom – Colouring Books, Printables, Masterclasses, and More

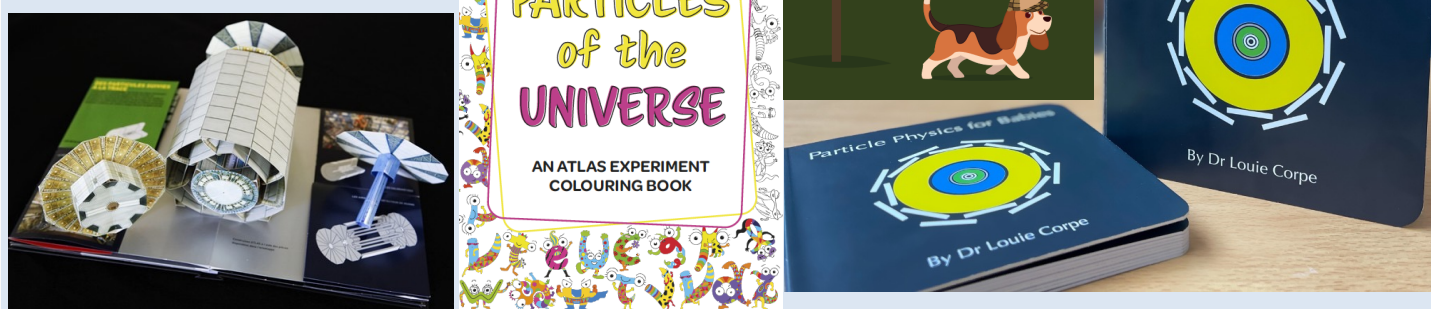
Motivation

- ❑ Bring the excitement of Scientific Exploration and Discovery into classrooms
- ❑ A lot of resources and a wide range of activities are created to encourage students of different ages to learn about particle physics in a fun way
- ❑ Early engagement results in better awareness of physics and higher diversity in the field.
- ❑ Opportunity to discover the world of particle physics in the classroom along with the real life particle physicist



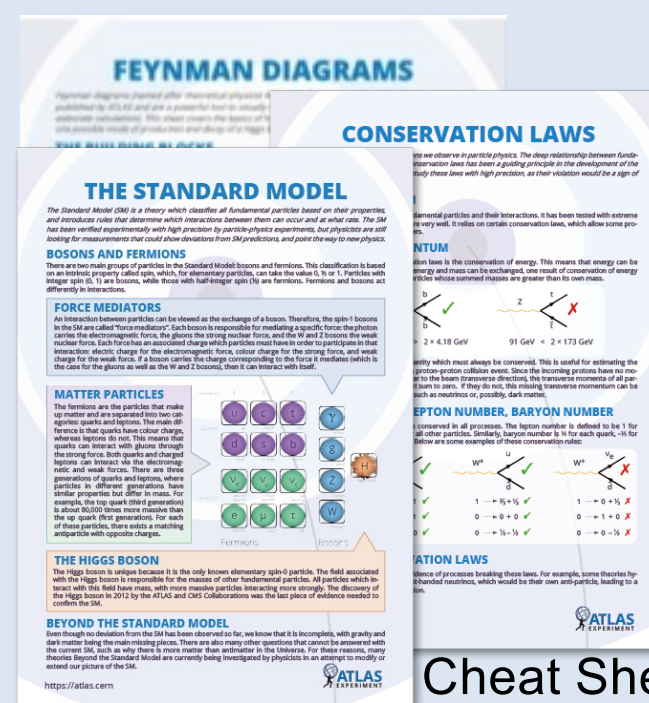
Books

- ❑ **Book for babies:** High-contrast images designed to help babies develop focus and eyesight
- ❑ **Pop-up Books**
- ❑ **Colouring books:** Teach children about ATLAS detector, collaboration, and Standard Model
- ❑ Introduced as **Particle ZOO**
- ❑ **Guide for parents and teachers**
- ❑ **PDF available online for Free**

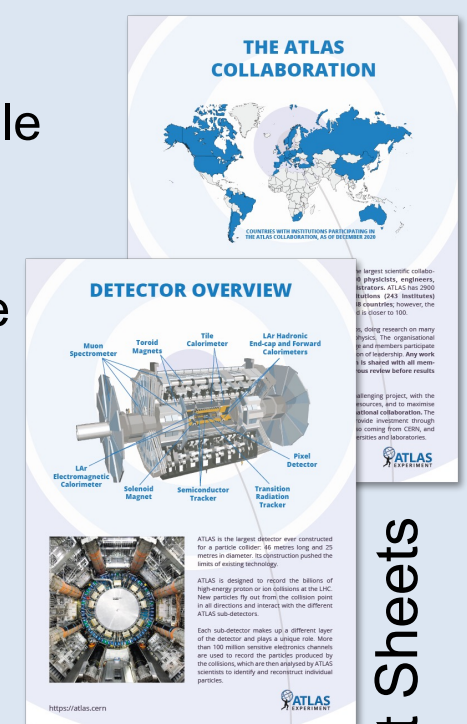


Printables

- ❑ 10 Fact sheets currently available
- ❑ Collect facts about ATLAS detector, collaboration, and physics program all in one place
- ❑ Concise and illustrated



Cheat Sheets

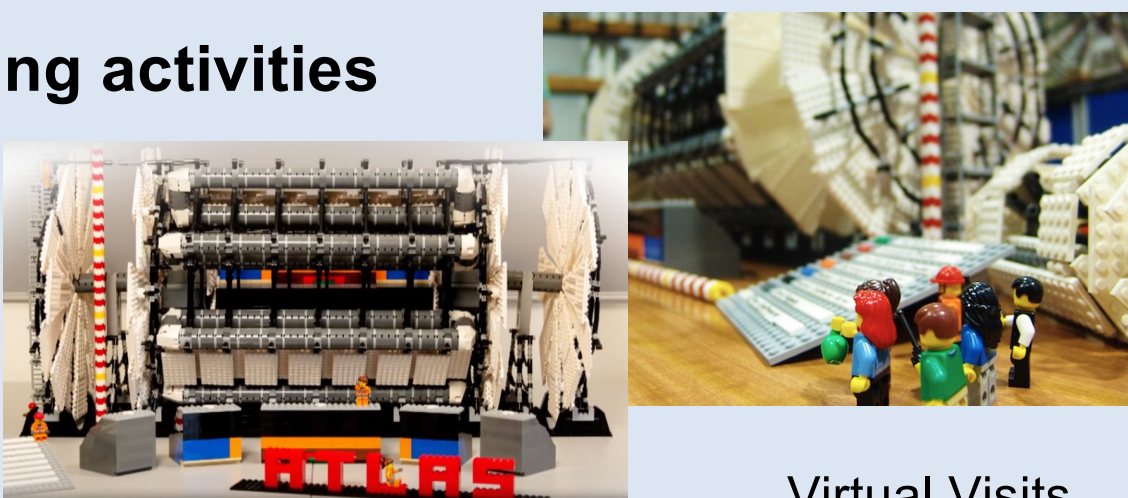


Fact Sheets

- ❑ 6 Cheat sheets currently available
- ❑ One concept covered per sheet

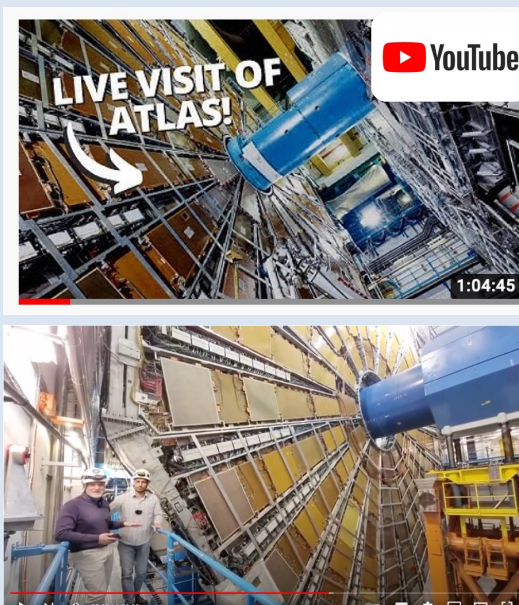
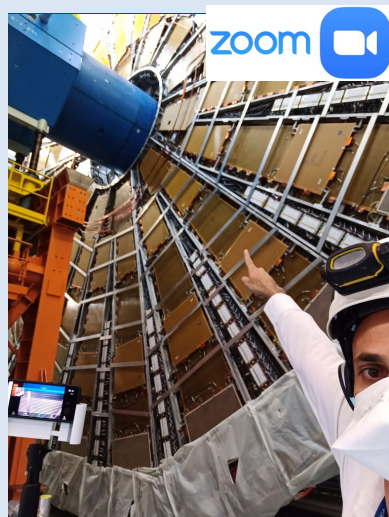
Engaging activities

Lego Models



Virtual Visits

- ❑ Fun and Educational group activity
- ❑ **Remote connection** to a worldwide audience from underground (or ATLAS Visitor Centre) using Zoom



Masterclass

ATLAS Masterclass at OSU



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



Multilingualism

- ❑ All educational material is made available to many readers through translation
- ❑ "ATLAS Experiment" colouring book available in 21 languages, "Particles of the Universe" in 11 languages
- ❑ Virtual Visits in ~10 different languages per year
- ❑ Cheat and Fact Sheets are available in up to 7 languages
- ❑ All translations are done or reviewed by ATLAS physicists

