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Resources for Schools to use in the classroom

Why not do Physics? PowerPoint Presentation for students (PDF) (/Documents/college-eps/physics/schools/why-not-do-physics-update.pdf)

More 'hands on' particle physics: learning with ATLAS at CERN (http://stacks.iop.org/0031-9120/46/270) (Long, L. Phys. Educ. 46 (2011) 270-280).

Abstract

This article introduces teachers and students to some resources now on a new portal called Discover the Cosmos (**http://portal.discoverthecosmos.eu/ (http://portal.discoverthecosmos.eu/)**), which has been developed by a European consortium of academic researchers and schools' liaison and outreach providers from countries across Europe. It includes the use of some of the mind-boggling facts and figures from the Large Hadron Collider experiment to illustrate some basic school physics concepts. It also uses innovative software adapted and made available on the web by European particle physics researchers to introduce a more innovative investigative approach to teaching particle physics concepts.

This gives students a more 'hands-on' experience in the classroom and a feel for what real scientific research might be like.

Cloud Chambers for schools - cloud chambers can be hired for a nominal amount from the Particle Physics research group, together with help in setting up experiments and ideas for data collection/projects in class – **more info and contacts here. (/Documents/college-eps/physics/schools/Cloud-Chambers-For-Schools-flyer.pdf)**

- **Cosmic Ray Telescopes for schools** – cosmic ray telescopes can be loaned from the particle physics research group, together with help in setting up experiments and ideas for data collection/projects in class – **more info and contacts here. (/Documents/college-eps/physics/schools/cosmic-ray-telescopes-for-schools-flyer.pdf)**
- **XMM satellite (astronomy information and worksheets) (http://www.sr.bham.ac.uk/xmm/)**
- **Particle Physics resources**, including free software for particle track analysis, lesson plans and EPQ ideas, teacher training events - **please click here! (https://www.ep.ph.bham.ac.uk/twiki/bin/view/General/MinervaExercises)**

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