Bringing CERN into the classroom

T. Whyntie*;†

* Langton Star Centre, † Queen Mary, University of London

Schools Outreach Support Network – Summer Meeting

Tuesday 16th July 2013
**CERN@school - aims**

- **Awareness:**
  - CERN and the UK’s role – STFC;
  - GridPP – UK’s contribution to the Grid;
  - The collaborative nature of research.

- **Teaching:**
  - Access to research-grade scientific equipment;
  - Access to data no-one has studied before;
  - Educational resources based on real-world research.

- **Research-based learning:**
  - Develop STEM skills;
  - Let students **be scientists**!
What is CERN@school?
The CERN@school team

- **Project Leader:**
  - Becky Parker (Director, Langton Star Centre).
- **Technical Manager:**
  - Tom Whyntie (Researcher in Residence, LSC).
- **Project Management:**
  - SEPnet: Clare Harvey.
- **SEPnet interns (Summer 2013):**
  - Azaria Coupe (Uni. of Soton), James Cook (QMUL).
- **Academic input:**
  - QMUL, CERN, ICL, SSTL, GridPP, STFC, UKSA...
Distribution networks

- **SEPnet:**
  - 6 CERN@school “originals”;
  - Supported by university outreach officers.

- **The IOP Physics Teacher Network:**
  - 25 CERN@school “2.0” detectors;
  - Funded by STFC;
  - Supported by Physics Network Coordinators.
The Timepix hybrid silicon pixel detector

- Hybrid
- Silicon
- Pixel
Making measurements
An example frame
X-rays

With thanks to the University of Kent.
X-rays

With thanks to the University of Kent.
CERN@school and outreach

- **CERN@school for the outreach community?**
  - Timepix detector (demonstrations etc.);
  - Access to CERN@school data;
  - Coding workshops?

- **The issue – university vs. schools:**
  - Currently negotiated for school use;
  - Is there the demand/desire to expand?

**twhyntie@thelangton.kent.sch.uk**
Thank you!
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Thank you!
Further information:  
http://cernatschool.org

@CERNatschool  
@langtonstar @twhyntie

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School Outreach Support Officers – Summer Meeting

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Thank you!