# CERN@school

Inspiring the next generation of scientists and engineers

## Supporting particle physics research in schools

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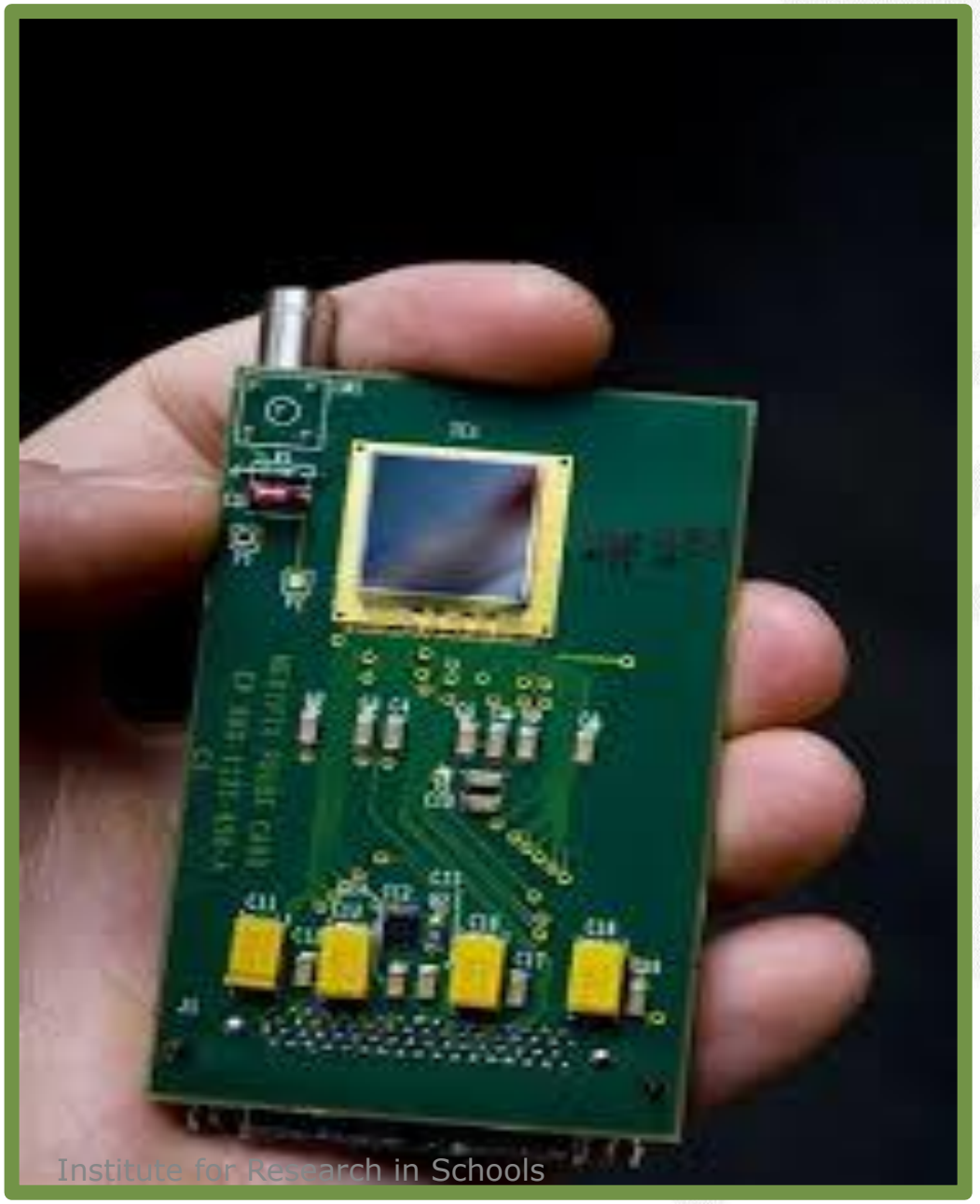
# Medipix chip

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Preview for Medipix Control 0 (USB D07-W0092)
File Options View Service Frames
256
Y
1
1
X (column number)
256
0
0.25
0.5
0.75
1
Frame: 1 Update < >
Min level: 0 Under warning
Lock
Max level: 1 Over warning
Lock
Auto range: Min - Max
Count rate Time: 800 s
Histogram: Auto refine
10^4
5
2.5
0
0 0.25 0.5 0.75
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Min: 0
Max: 94480
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Mean: 2.8952
Std. dev.: 521.93
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Filter chain: None
Auto update preview
start
19:08

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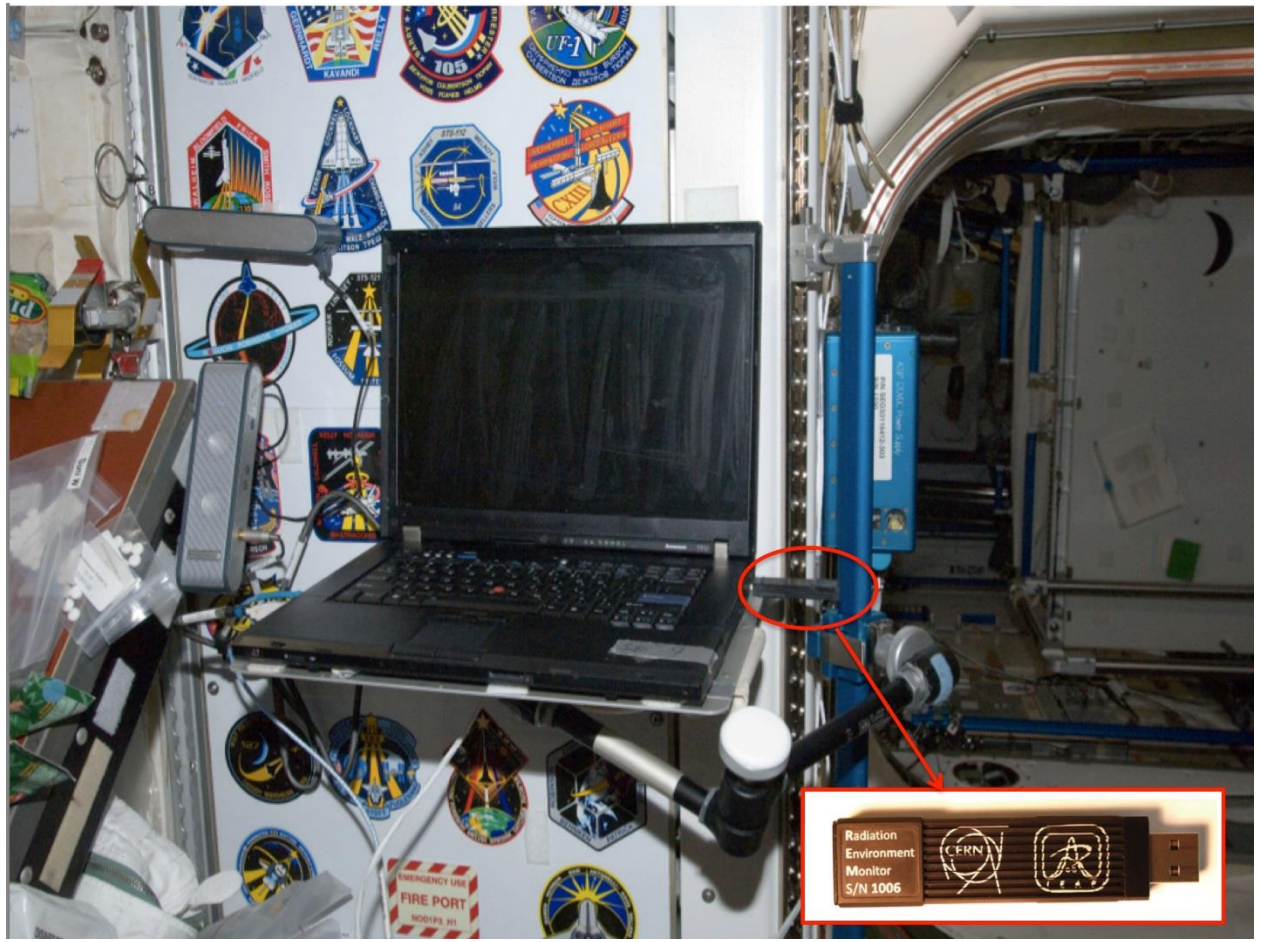
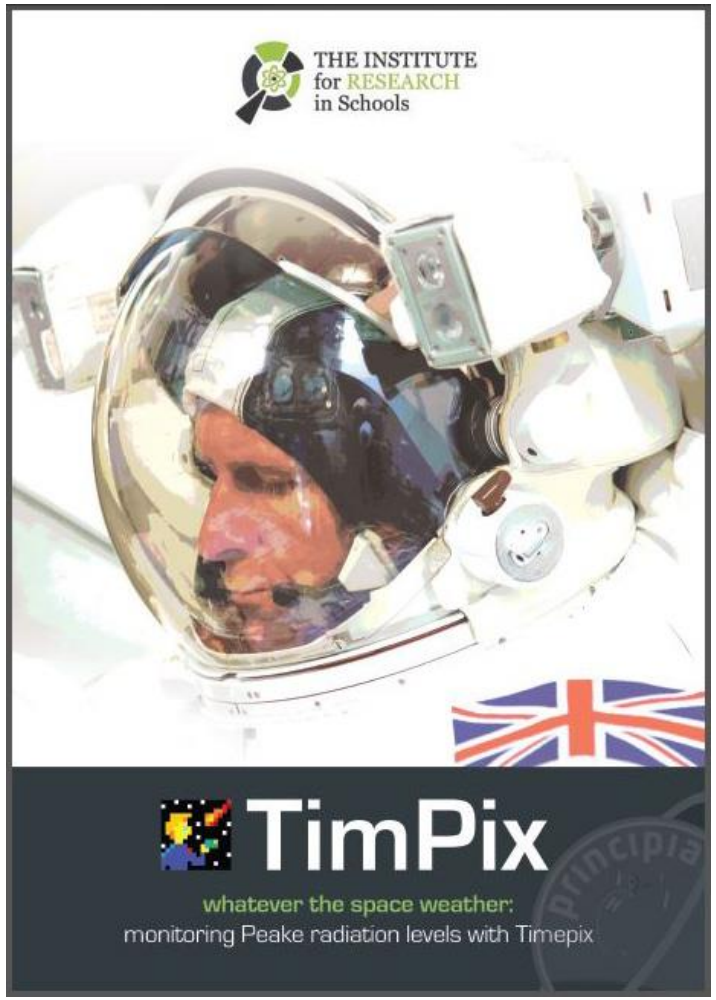
# Participating Schools


Radiation
Environment
Monitor
S/N 1006
CERN
FIRE PORT


esa

# TimPix




We are linking with British ESA Astronaut Tim Peake's mission on the International Space Station.

We are monitoring radiation the astronauts encounter whilst orbiting the Earth using NASA data.

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# The Langton Ultimate Cosmic ray Intensity Detector


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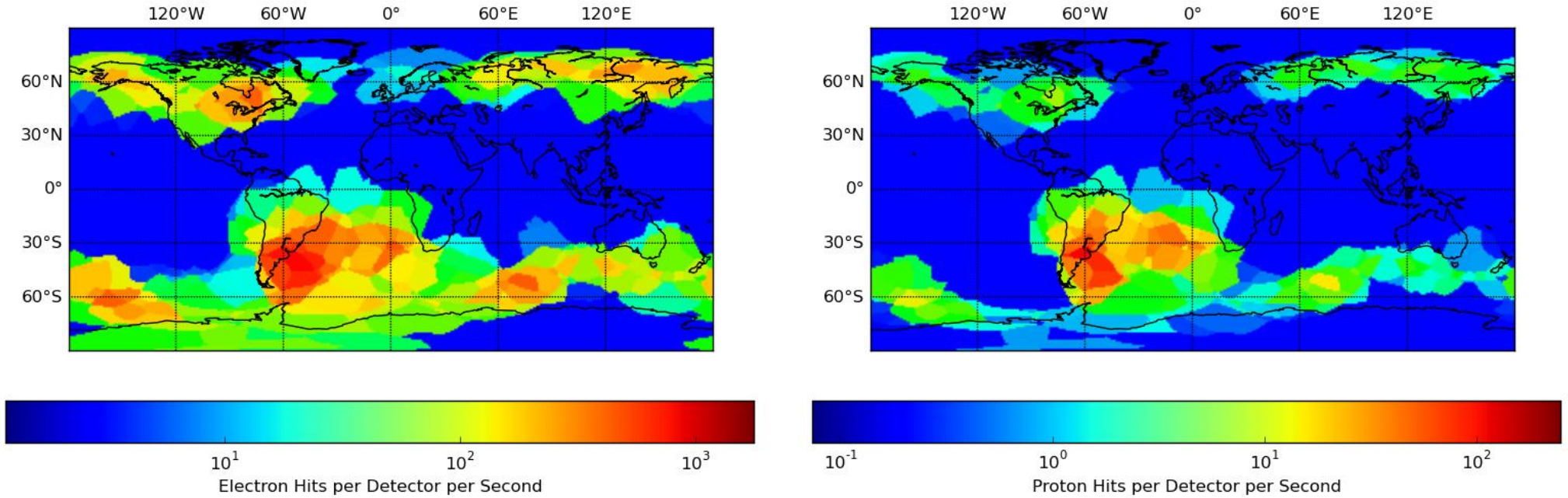
LUCID was launched on TechDemoSat-1 from Baikonur on a Soyuz 2 rocket on 8th July 2014

TDS-1 selfie!




# LUCID Results: Electron and Proton Counts

February 2016

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# Making Light of the Dark

Investigating the effects of dark matter on cosmological anisotropy

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# Aims of IRIS

- Nurture the potential and ability of young people to contribute to the scientific community
- Increase uptake of post 16 maths, science and technology courses
- Increase applications for STEM subjects at university, especially with girls
- Enhance teachers' expertise and job satisfaction and so retain teachers and recruit more to the profession
- Engage Universities and Industry in sustained interaction with schools
- Develop soft skills of communication, creativity, critical thinking, collaboration

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# Thank you


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@ResearchInSch