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#10-255 The LUCID experiment - releasing the potential of school students in space research

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The LUCID experiment involved groups of students in a school in Kent, UK, working with a huge number of colleagues to put Medipix technology in open space on TechDemoSat 1. Students worked on this outside their formal studies over a period of ten years and benefitted from real engagement with research. LUCID [1, 2] studied the radiation environment in Low Earth Orbit for three years, collecting over 2.1 million frames of radiation data from its five Timepix detectors. Students published their results in *Advances in Space Research* in 2019. The students who were involved in LUCID are now becoming leaders in science research themselves, working across many areas of physics and engineering.

Becky Parker [3] the teacher supporting students in this, will outline how this genuine involvement of young people in research can not only inspire students and teachers but also contribute to scientific advance.

References

- [1] <https://www2.physics.ox.ac.uk/blog/astro-blog/2019/02/26/lucid-in-the-sky-a-stunning-example-of-research-in-schools>
- [2] <https://home.cern/news/news/knowledge-sharing/high-school-students-launch-cern-tech-space>
- [3] https://en.wikipedia.org/wiki/Becky_Parker

Primary author: PARKER, Becky (School of Physics and Astronomy, Queen Mary University of London)

Presenter: PARKER, Becky (School of Physics and Astronomy, Queen Mary University of London)

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