



## **Deliverable D5.3 – WP5 – Due date: 30th April 2018**

Title: Report on UK Masterclasses for high school students.

Type: Other

Dissemination level: Public

WP number: WP5

Lead Beneficiary: Liverpool.

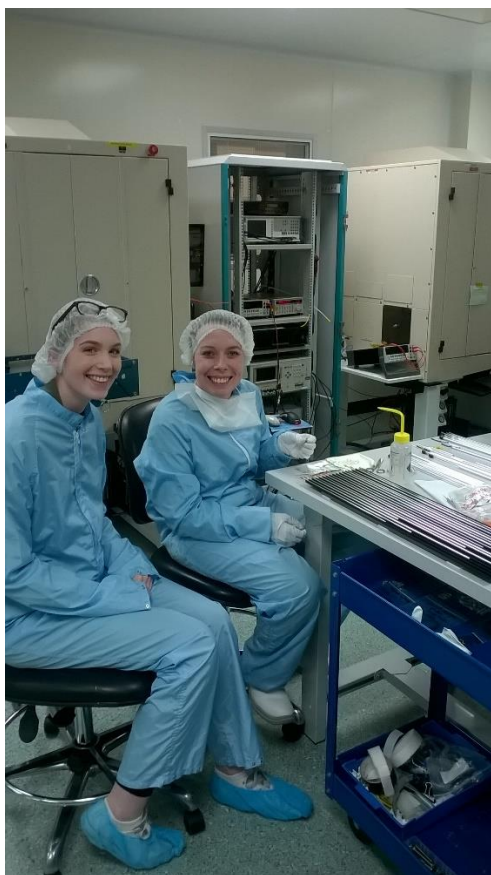
### **Abstract:**

This report describes the various outreach activities that have taken place in the UK in relation to the g-2 and Mu2e experiments.

### **Report on public presentations and work experience placements at UK universities.**

Both the Liverpool and UCL groups working on g-2 and Mu2e have been actively involved in public dissemination of their work.

The g-2 track detector was constructed in the clean rooms at Liverpool and this gave us the opportunity to offer Work Experience to several high school students during the construction. During June and again in August 2016 four students were given the opportunity to help with the construction. Whilst delicate tasks could only be carried out by experienced technical staff, the students helped with the preparations of the detector components.



In Figure 1 one of the summer school students is pictured with one of our PhD students working on the preparation of the wires and pins for each straw detector.

In addition to this hands on Work Experience, the Liverpool group organised several day long sessions during which approximately 200 school students were given lectures on g-2, followed by tours of the laboratory and clean rooms where they could watch the construction of the g-2 straw detectors. The students could also handle a prototype detector (see photo below) and also test individual delicate straws to destruction!

These day long sessions have taken place on February 24<sup>th</sup> 2016, June 22<sup>nd</sup> 2016, March 1<sup>st</sup> 2017 and February 14<sup>th</sup> 2018. Another is planned for June 23<sup>rd</sup> 2018.

Some pictures from each of these days are shown below:









At University College London, similar masterclasses have been organised and took place on February 15<sup>th</sup> 2016, March 30<sup>th</sup> 2017, February 12<sup>th</sup> 2018 and March 28<sup>th</sup> 2018. Information can be obtained at [www.hep.ucl.ac.uk/masterclasses](http://www.hep.ucl.ac.uk/masterclasses)

In addition both the Liverpool and UCL groups have arranged for students to visit Fermilab. In the case of UCL this was for 2 students between June – August 2016, where they helped with detector testing and installation. Liverpool arranged for one student to spend 2 months at Fermilab during the summer of 2016.