UNIVERSITY OF BIRMINGHAM | SCHOOL OF PHYSICS AND ASTRONOMY

DESY

INTERNATIONAL COSMIC DAY

Particle Physics Research Group

On 29th November 2018 the Particle Physics Research Group organised participation in the International Cosmic Day (ICD). The event is organised by DESY and involves participation of institutions all around the world. Three local schools arrived at the University on the day, each bringing groups of 8-10 students from years 12 and 13.

The day started with an introductory talk on cosmic rays and continued with students being briefed on how to use the cosmic ray telescopes and the spark chamber for data collection.

The experimental aims of the day were (i) to measure the rate of air shower particles as a function of the zenith angle and (ii) the effect of height on the count rate of cosmic rays. Students collected and analysed data, produced scientific posters on their experiments and finally

discussed their results and conclusions with other schools around the world via a live video-link.

All work was submitted to DESY and an ICD Booklet was created, containing:

- the general announcement poster;
- a picture of the google map showing all participating institutes;
- pages for research topics of all participating institutes;
- pages for results of every participating group;
- summary of results;
- information about school projects, relevant links, interesting websites and further material.