

8th Beam Telescopes and Test Beams Workshop



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The Beamline for Schools competition

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Beamline for Schools (BL4S) is a competition in particle physics for high school students from all around the globe. Each participating team proposes a fixed target experiment that can be performed at the available test beam facilities, making use of the available infrastructure and detectors. The first prize in this competition, awarded to two teams, is a trip to a renowned research institute, where these teams perform and analyze their own proposed experiments guided by supporting scientists and get an insight into the work life of an experimental physicist.

While from 2014 until 2018 the teams executed their experiments at the PS Test Beam areas at CERN, in the 6th BL4S edition in 2019, the DESY II Test Beam Facility hosted the two winning experiments due to the maintenance of the CERN accelerator complex. The new infrastructure, additional available detectors and the changed beam conditions opened up further opportunities for the proposed experiments and at the same time introduced new challenges concerning their implementation. In 2020, two winning experiments of the BL4S competition will take place at DESY and a third winning team will be invited to the DAFNE Beam-Test Facility (BTF) at LNF.

In this presentation the concept and the infrastructure of the BL4S competition will be discussed. In addition, some of the winning experiments from the previous years are outlined and an outlook for the upcoming edition is given.

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