BEAM INSTRUMENTATION

from 2 to 15 June, 2018

Hotel Gustavelund
Tuusula, Finland
www.gustavelund.fi

Find more about Finish mythology at *https://en.wikipedia.org/wiki/Aino_(mythology)*

Illustration © Sampo Soveri

Ten years after the last course on accelerator beam diagnostics in Dourdan (France) the CERN accelerator school will again offer such a course in 2018 – close to Helsinki (Finland). This is intended be of interest to staff and students in accelerator laboratories, university departments and companies manufacturing accelerator equipment who wish to learn about beam instrumentation technologies, data treatment and accelerator performance diagnostics.

The course is split into morning lectures and afternoon "hands-on" courses.

The lectures will focus on the typical instruments used in high and low energy linear and circular accelerators, introducing examples of their application and some elementary background on particle dynamics.

For the "hands-on" courses the participants will be split into groups to work with real equipment on beam position measurements, optical diagnostics, radio frequency measurements and digital signal processing.

Participants will leave the school having acquired a detailed understanding of how beam diagnostic measurements are performed and practical experience of how the instrumentation used is built and operated.

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