

# GFA Accelerator Seminar

## Machine learning in beam diagnostics

**Monday, 14 May 2018, 16.00 h, WBGB/019**

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Machine learning techniques are very successful in many areas of industry and science. The first attempts to use them for particle accelerators date as early as 1980s, however, from a perspective of recent developments, accelerator community seem to lag behind global trends.

This means that there is space for exploration.

In this presentation the main concepts behind Artificial Neural Networks are first presented. Then, two examples of application of these algorithms for problems related to beam instrumentation are discussed.

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