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Deep learning for neutron and x-ray scattering

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Nowadays, there is a lot of hype around big data, machine learning, deep learning. It is used by autonomously driven cars, in marketing for product recommendation or by search engines. The technique is very powerful. Could we apply it to neutron scattering data? Are the event-mode data from the PSD detector "big"? Can the neural network learn from it? What does the neural network learn and how?

In this talk I will explain the main terms, show the possible applications of deep learning for neutron/x-ray scattering and give an overview of the activities of the scientific computing group in this field.

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