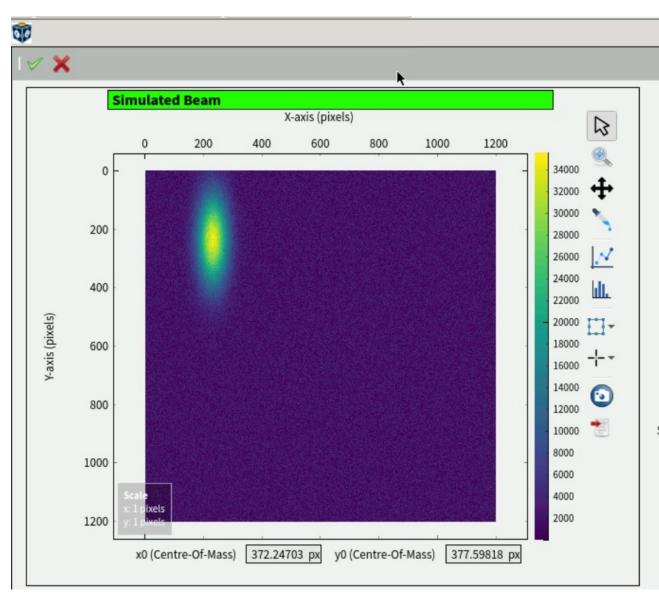
The assumptions behind Machine Learning

- Jupyter notebooks gradually increasing complexity on ML topics.
- Some small exercises in-between.
- Detailed mathematical explanation of the methods in notebooks, so we can gain an understanding of how it works.
- Topics:
 - Basic line fits with uncertainties.
 - Representation Learning.
 - Simple non-linear extension of line fits.
 - Neural Networks (+ uncertainties).
 - Data classification with Support Vector Machines.
 - Gaussian Processes.
 - Bayesian Optimization.
 - Mixture Models.

Hands-On Automation

- Implement a simulated Beam Stabilization system in the Karabo SCADA system using Python
- Perform scans on the unstabilized and stabilized beam



Please choose a session here

 We might need to assign a few people different from their wish to balance the number of participants in each session

https://syncandshare.xfel.eu/index.php/s/JqRTeTd78nWjfEf

