Competence Centre on Simulation and Big Data
Highlights - simulation
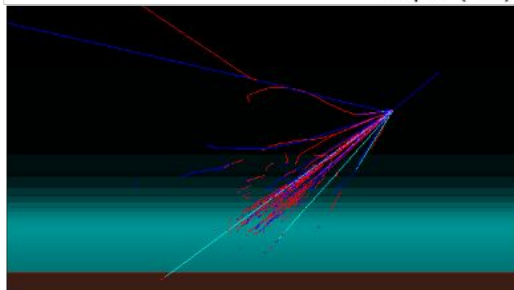
Competence Centre on Simulation and Big Data
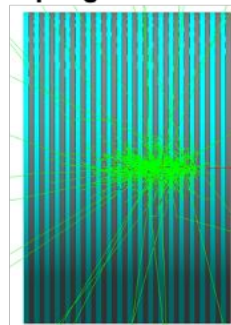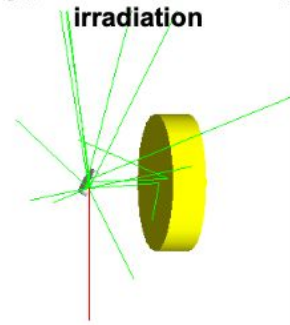
Highlights - machine learning

arXiv:2201.05659
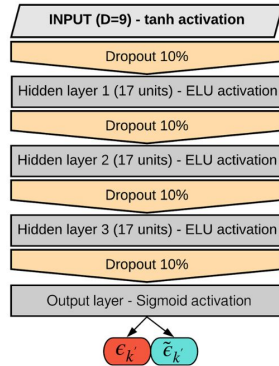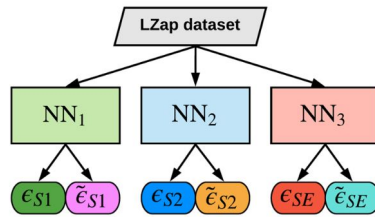
arXiv:2203.08782

CNN to get the probability that a muon has passed through the WCD
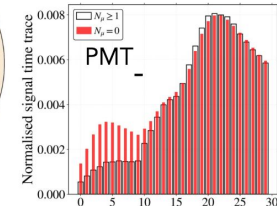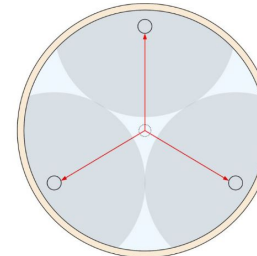
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Highlights - machine learning

arXiv:2206.09223

arXiv:2211.03233

arXiv:2304.07196

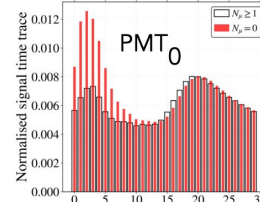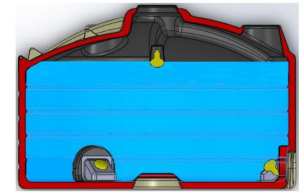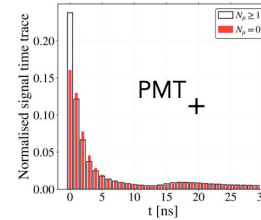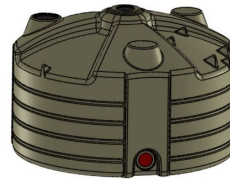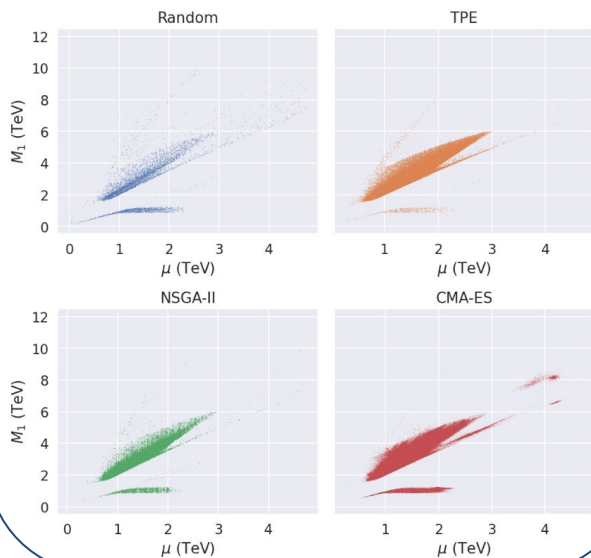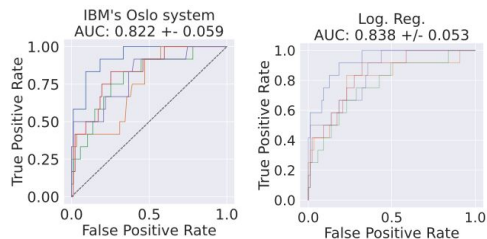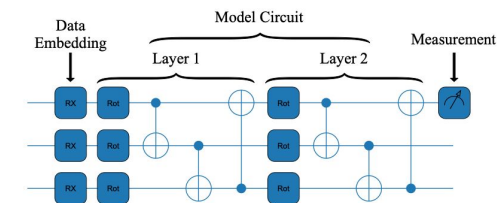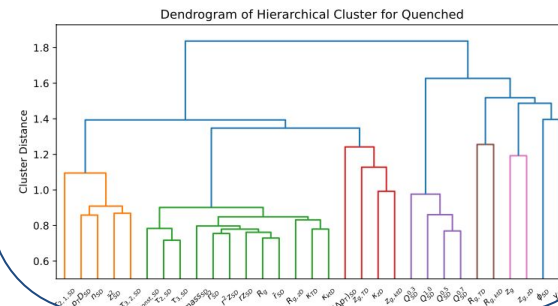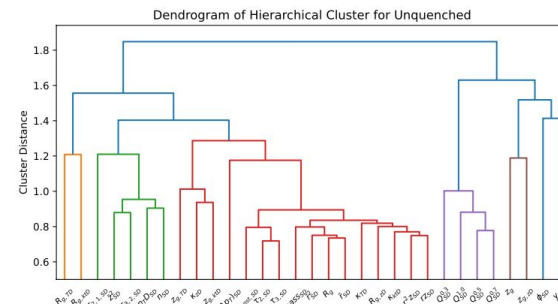# Competence Centre on Simulation and Big Data
SWOT

Strengths

Integration in international collaborations (HEP experiments, Geant4 collaboration)
Diverse team, consolidated by competitive fundings (some secured by the Competence Center)
Good synergies with the computing team and INCD

Weaknesses

We are still below the critical mass in some areas
We continue to improve the communication between groups, but there is still work to be done

Opportunities

The Horizon Europe programme has a strong focus on Digital Transformation

Threats

Extremely competitive areas, involving a community much larger than the HEP