Attività muoni

- Cluster position reconstruction and pattern recognition for ATLAS
 - Pattern recognition in the NSW for the HLT
 - Training sample on muons (MC) + background (2023 data)
 - RNN pattern recognition
 - Integrated in the L2 alg in a dedicated branch to be tested asap (work in collaboration with Junpei et al.)
- Same thing on a standalone MC that we developed as a testbed, with flexible layout and background levels
 - DNN (same as the NSW one) inference on GPU, FPGA
 - Tested up to now U50, U250, Versal tests ongoing, using the CERN testbed
 - Precision and timing studies
 - CNN for pattern recognition, not ideal but we can run FPGA inference
 - In touch with Xilinx to test RNN and in general for
 - Paper to be submitted
- Using the CERN ATLAS TDAQ testbed for training and inference, and the Rome GPU server for training and production of simulated samples