Fast inference on FPGA for the ATLAS Muon Trigger

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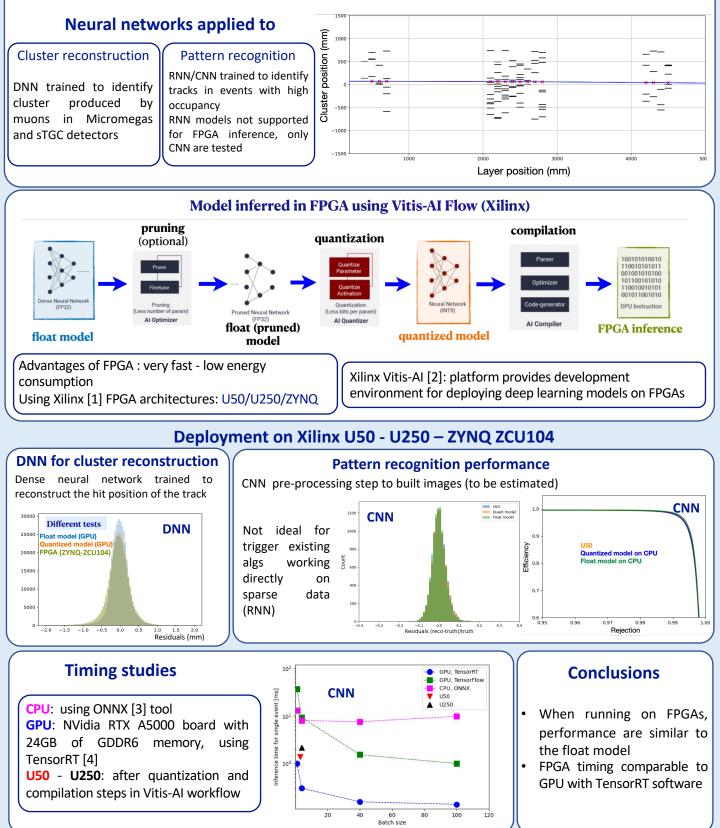


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From Simulation to FPGA Implementation

Toy model: detector with 3 station immersed in a 1 T magnetic field Single muon events: hit rate expected in the inner station of ATLAS Muon Spectrometer end-cap (New Small Wheel) at HL-LHC



[1] https://www.xilinx.com, [2] https://www.xilinx.com/products/design-tools/vitis/vitis-ai.html, [3] https://onnx.ai, [4] https://developer.nvidia.com/tensorrt