

# Poster presentation

- Performance of the actual algorithm (optimal filtering (OF)) to reconstruct the energy deposited in LAr calorimeter will decrease with the HL-LHC conditions.
- Neural networks are studied to replace it
  - Recurrent or convolutional neural networks
  - Both more performant than the OF with maximum filter
- Implementation on a FPGA of the readout board
  - 2 different technologies used VHDL/HLS
  - Both 3 conv and Vanilla RNN full fill the LAr requirement

