Few updates on the FPGA flagship

Simone Gennai & Bernardino Spisso



Course on VHDL by Andrea Triossi

- Dates: 4th to 6th of March
- □ Zoom only
- □ Still thinking whether to set up FPGA accesso or not
 - For this kind of course the use of U50 would not really add much to the course
 - □ May be Better to have smaller FPGA with switches, buttons and displays...
- It will be based on the use of Vivado, to speed it up it is better to have it installed locally
- □ Agenda in preparation



- Most likely they will not be available before Autumn 2024 ...
 - □ What shall we do in the meanwhile?

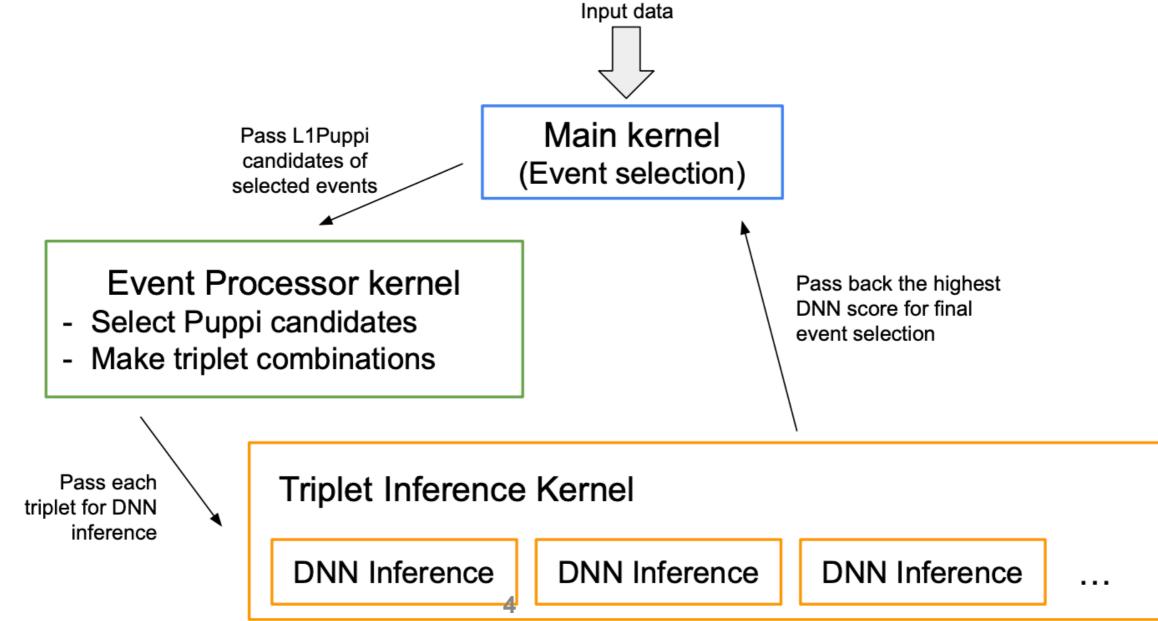
There are few FPGAs available at CNAF (U50) not clear if they could be useful for some of the projects



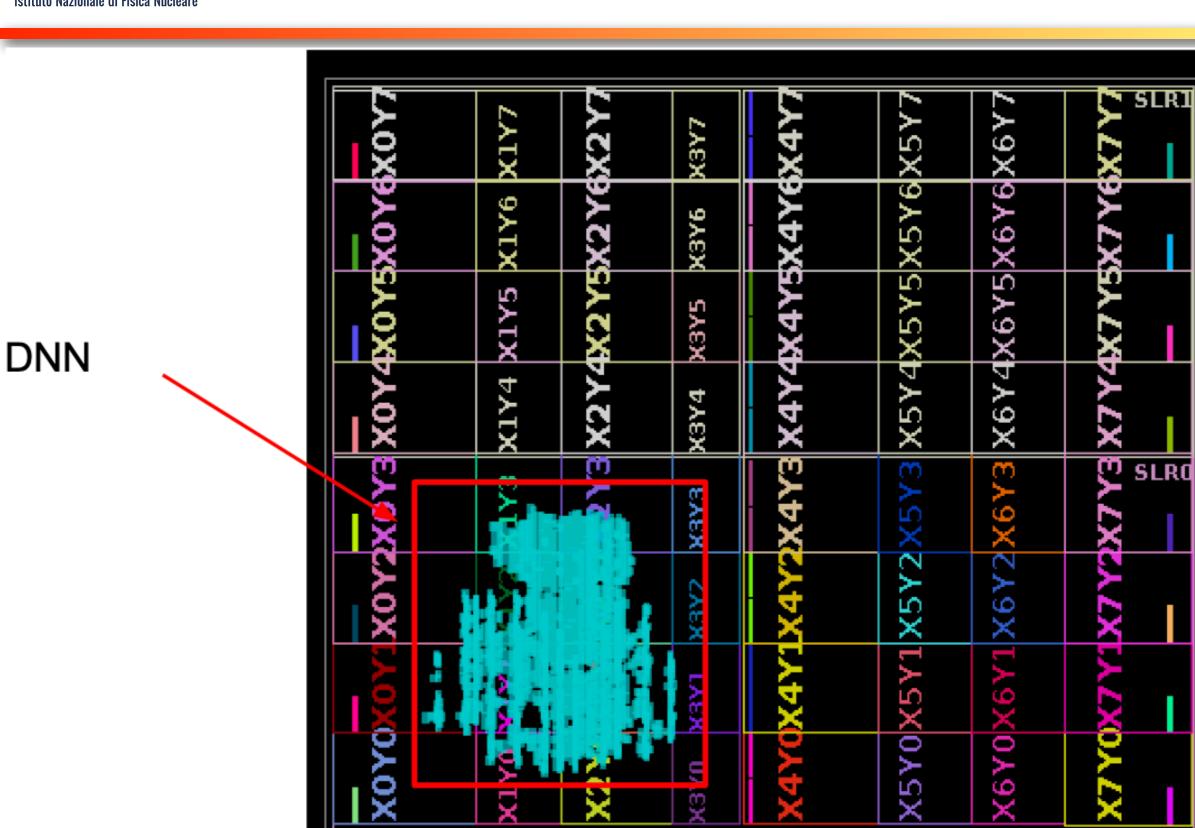
Update from MIB

Francesco Brivio started to work on the scouting analysis W->3pions

□ General idea: build different kernels for different tasks



Stitute Nazionale di Fisica Nucleare





Status KPIs

Link to the flagship document

KPI ID	Description	Acceptance threshold	Status up to today
KPI2.2.3.1	Development of triggering algorithms, on-line analyses, data acquisition on FPGA	Submission of 1 paper to a peer- reviewed journal	1 paper already accepted
KPI2.2.3.2	Online scouting	Submission of 1 paper to a peer- reviewed journal	Abstract being submitted to ichep 2024 about scouting
KPI2.2.3.3	Development of tools to integrate several FPGAs together	Submission of 1 paper to a peer- reviewed journal	
KPI2.2.3.4	Organizing courses about FPGA programming on low and high level	At least two courses organized	1 course done at the end of 2023 (1/2 of the KPI done) VHDL course programmed by march 4th