# Few updates on the FPGA flagship

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#### 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?

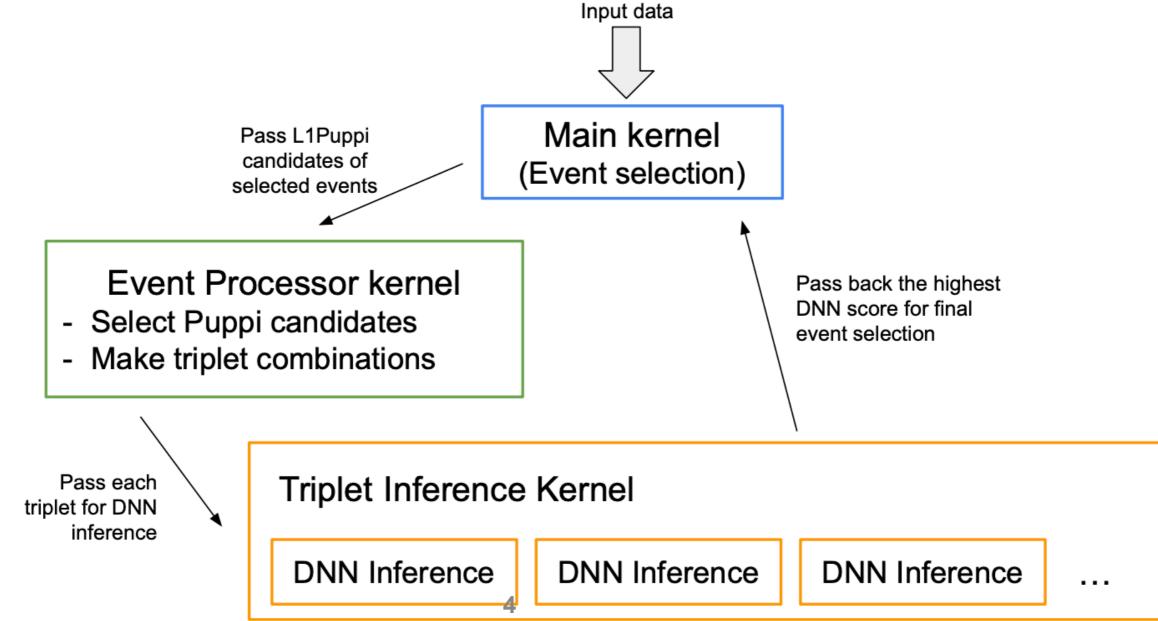
There are few FPGAs available at CNAF (U50) not clear if they could be useful for some of the projects



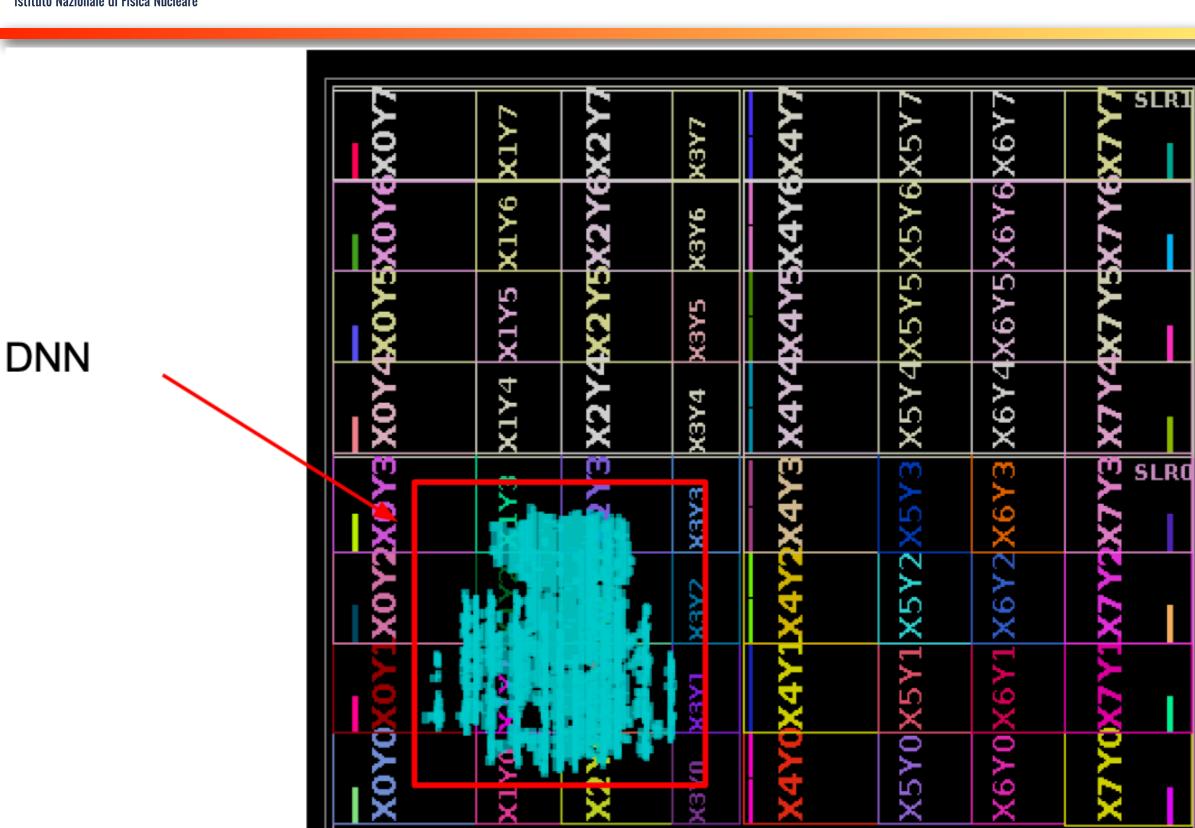
**Update from MIB** 

## 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