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Open hardware at big detectors

The relationship between open source culture and the great physics experiments in the world has always brought great benefits for both sides. However, the challenges to achieving high-performance instrumentation and time development constrain, makes the labor harder in terms of hardware. A method to use and share information in this context is mandatory to achieve experimental designs in which open and closed code can cohabit, without penalizing the reliability or the reusability of technology developed in the process. In this talk, I will share an example where fast FPGA circuitry development turns into a reliable task for big and budget-sensitive projects such as the detectors at the DUNE experiment in FERMILAB.

Primary author: ARROYAVE, Manuel (Manuel)

Presenter: ARROYAVE, Manuel (Manuel)

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