PDS Report on DAPHNE

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January 19, 2023



Summary

- ▶ DAPHNE 2 was installed and tested in integration with DAQ system, Oct 2022
- ➤ A collection of recommendations was submitted during the last workshop at Brazil Nov 2022
- ► A significant upgrade of transmission speed from DAPHNE was requested by the DAQ group.
- Due to a big collection of reasons, an SoC architecture will be implemented in DAPHNE V3
- Group in Milano keeps studying different ways to improve the analog signal from the cold amplifier
- ▶ DAQ is asking for feedback from us to support the new timing interface
- ▶ In April, we are planning to install the V2 boards on top of NP04



Status of the different boards

This is the current status of the different DAPHNES:

- ► DAPHNE V2 Number 1 is on top of the NP04
- ▶ DAPHNE V2 Number 2 is on the DAQ barracks
- DAPHNE V1 Number 10 was shipped to Valencia
- Another DAPHNE V1 is in Valencia but not sure which number
- ► DAPHNE V1 Number 9 is at CERN
- ▶ DAPHNE V1 Number 8 is at Milan



Status of acquisition of Kria dev boards

These are the current Kria Modules available:

- ▶ 4 Kria dev Modules at Fermilab
- ▶ 1 Kria at EIA since December
- UdeA is waiting for two modules to be delivered
- ► UAN is also waiting for one module



