

# Adaptation and Modularization of MPW4 Firmware for Integration into the Caribou Boreal Architecture: A Pilot Project

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The pilot project aims to modularise, adapt and integrate the original MPW4 firmware developed at HEPHY into Caribou's new Boreal architecture. This initiative marks the introduction of the first chip within Caribou's new modular firmware. Leveraging the original MPW4 firmware developed at HEPHY, the project focuses on modularisation, adaptation and integration into the user core of the Boreal firmware architecture. Other objectives include automation, simulation and verification, culminating in full system testing. The phased implementation ensures systematic progress, with the current focus on phase 1: modularisation and integration of the MPW4 chip's slow control into Boreal. This phase follows the initial study and analysis of the HEPHY code of the MPW4 firmware.

## Type of presentation (in-person/online)

in-person presentation

## Type of presentation (scientific results or project proposal)

Presentation on scientific results

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