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Type: **Parallel Talk**

Exploiting Modern C++ for Portable Parallel Programming in Lattice QCD Applications

Monday, 31 July 2023 17:00 (20 minutes)

In this presentation, we will discuss the application of recent and emerging C++ features, with a focus on portable parallel programming in lattice QCD. Specifically, the discussion will center around certain key features introduced in the C++17, C++20, and C++23 standards, as well as an exploration of some experimental features currently under development.

A primary emphasis will be placed on accelerator programming, aiming to highlight the potential of these modern C++ features in achieving highly efficient and portable solutions to enhance and streamline the programming of complex LQCD applications.

Topical area

Software Development and Machines

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