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Partial wave analysis with OpenAcc

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Partial wave analysis is an important tool in hadron physics. Large data sets from the experiments in high precision frontier require high computational power. To utilize GPU cluster and the resource of supercomputers with various types of the accelerator, we implement a software framework for partial wave analysis using OpenAcc, OpenAccPWA. OpenAccPWA provides convenient approaches for exposing parallelism in the code and excellent support for a large amount of existing CPU-based codes of partial wave amplitudes. It can avoid a heavy workload of code migration from CPU to GPU.

This poster will briefly introduce the software framework and performance of OpenAccPWA.

Consider for promotion

No

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