Contribution ID: **359**   Type: **Talk**

Introduction to the Quantum EXpressions (QEX) framework

Thursday 28 July 2016 14:00 (20 minutes)

We present a new lattice field theory software framework designed with
ease of use, flexibility, efficiency and portability in mind. The
framework is written using the Nim programming language which offers
many of the features one would find in a high-level scripting
language, while in fact being a strongly-typed language with full
control over low-level optimizations. This allows us to present a
simple expression-based language to the end user that can be
transformed into highly optimized code for a particular architecture.
We will discuss the features of the QEX framework, performance results
and development plans.

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Session Classification: Algorithms and Machines

Track Classification: Algorithms and Machines