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The FUEL code project

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I will give an introduction to the FUEL project for lattice field theory code. The code being developed (called “qhmc”) was initially targeted for gauge field generation for beyond standard model theories, and is now growing into a more general framework suitable for analysis too. The design is based on using the Lua scripting language as a wrapper for existing lattice field theory libraries, which provides a quick and easy way to develop new calculations. The implementation currently only supports the USQCD QOPQDP and QDP/C libraries, with support for other optimized libraries planned. I will discuss the current status of the code along with future plans for development.

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