Theory challenges for LHC physics



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FIRE5: a C++ implementation of Feynman Integral REduction

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In modern elementary particle physics one often needs to evaluate millions of Feynman integrals. An already classical approach is to apply the so-called integration by parts relations and reduce all integrals to a smaller set, the master integrals. We present FIRE5 - a powerful program performing Feynman integral reduction.

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