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Round table discussion: Analytical vs. numerical methods for NNLO+ computations for LHC

Thursday 24 August 2017 14:00 (1h 30m)

In recent years, we have seen an explosion of new results at the NNLO level and beyond for LHC processes. These advances have been achieved through both analytical and numerical techniques, depending on the process and the group that performed the calculation.

This panel discussion will address such as how much the minimization of computer running time is desirable and if the possibility to incorporate new results into an event generator is always important (which tends to favor analytical techniques). On the other hand, there may be relevant processes for which it is not conceivable to compute them without numerical methods.

The event will start with brief statements by each of the panel members, followed by an open discussion.

Presenters: KATO, Kiyoshi (Kogakuin University); JONES, Stephen (MPI, Munich); UEDA, Takahiro (KEK); GIELE, Walter

Session Classification: Track 3: Computations in Theoretical Physics: Techniques and Methods

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