

## Tutorial 1: LanHEP

*Monday 30 June 2008 17:00 (1 hour)*

The LanHEP program for Feynman rules generation is presented. It reads the Lagrangian written in the compact form close to one used in publications. It means that Lagrangian terms can be written with summation over indices of broken symmetries and using special symbols for complicated expressions, such as covariant derivative and strength tensor for gauge fields. The output is Feynman rules in terms of physical fields and independent parameters. This output can be written in LaTeX format and in the form of CompHEP model files, which allows one to start calculations of processes in the new physical model. Feynarts format output is also available now.

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**Session Classification:** Session 4