

Mathematica, FeynArts & FormCalc, and All That

Mon **Introduction to Mathematica and FORM**

Basic programming concepts. How to write efficient Mathematica programs. What makes Mathematica and FORM different.

Mon **Symbolic Programming Examples**

Problems from particle physics solved with Mathematica and FORM.

Tue **Numeric Programming Examples**

Writing external code for Mathematica. Pitfalls of floating-point arithmetic. Memory access, alignment. Parallelization.

Tue/Wed **Using FeynArts and FormCalc**

Basic usage. Detailed look at input and output. Tweaking model files. Computing a cross-section. Computing other things.

