## Reduze 2

Tuesday, 6 September 2011 14:50 (25 minutes)

Reduze is a computer program for reducing Feynman Integrals to master integrals employing the Gauss/Laporta algorithm. Reduze is written in C++ and uses the GiNaC library to perform simplifications of the algebraic prefactors in the system of equations.

In this talk, the new version, Reduze 2, is presented. The program supports fully parallelised computations with MPI and allows to resume aborted reductions with the use of the Berkeley database. The user inputs are standardized with the YAML file format. Reduze 2 also provides an interface to use the computer algebra system Fermat.

**Primary authors:** Mr VON MANTEUFFEL, Andreas (von Manteuffel); Dr STUDERUS, Cedric (University of Bielefeld)

**Presenter:** Dr STUDERUS, Cedric (University of Bielefeld)

Session Classification: Tuesday 06th - Computations in Theoretical Physics

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