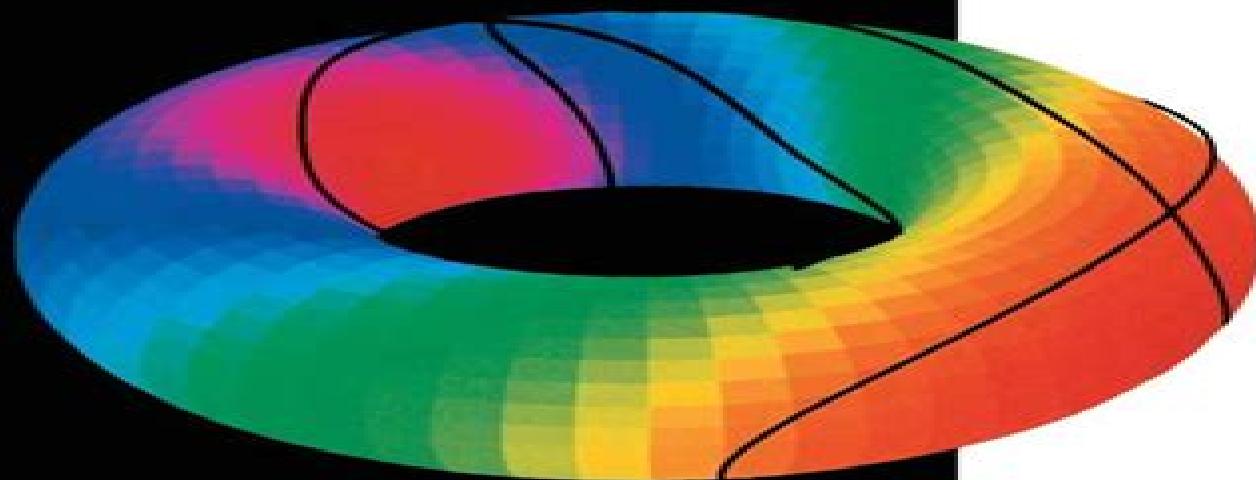


■ Stephan Kaufmann

Mathematica as a tool

An introduction with
practical examples



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Mathematica as a Tool Stephan Kaufmann,2012-12-06 More than ten years ago I wanted to carry out coordinate transformations for Hamiltonian systems in order to discuss the stability of certain equilibrium positions. Basically the calculations only involved rational expressions but they turned out to be extremely complicated because the third and fourth order terms had to be included. After several months of filling whole blocks of paper with formulas I was close to resignation. But by a lucky incident I met a colleague who showed me the computer algebra package Reduce. It still required a lot of patience and tricks but Reduce finally did produce the desired results. After this experience I wondered why only a few engineers and scientists were aware of the strengths of such computer algebra programs. The mathematical treatment of scientific problems often leads to calculations which can only be solved by hand with a considerable investment of time while a suitable computer algebra program produces the solution within a couple of seconds or minutes. Even if a closed symbolic solution is not possible such programs can often simplify a problem before the cruder tool of numerical simulations is applied.

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