

Invited: CPHE-I-03

Open Source Computation in Physics Education

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Computation has become a ubiquitous part of a modern physics course. However, in most of these courses, the emphasis is on the teaching of a particular programming language, with little emphasis on physics. We will discuss ways in which we can use the power of computation to enhance physics education. We will focus entirely on open source software for this purpose. In particular, we will focus on the use of the python programming language and the plotting program gnuplot. The emphasis will be on using simple numerical algorithms to study various problems in physics.