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It was roughly a month before my rst computational physics course be-gan that I was introduced to Python by Bruce Sherwood and Ruth Chabay, and I realized immediately that this was the language I needed for my course. It is simple and easy to learn; it's also easy to read what another programmer has written in Python Page 17/27

and gure out what it does.

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It is proposed that presentation using Python is a more effective and efficient way to teach physics than the traditional one. 1 The Need for Computational Education We start by looking at the results of a survey of physics bachelors conducted by the American Institute of Page 21/27

Physics that determined which aspects of their education are most valuable in their current employment five years after graduation (AIP, 1995).

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H. Landau1, Cristian C. Bordeianu2*, Manuel J. Paez3 Oregon State University, Physics Department, Corvallis, OR 97331, USA University of Bucharest, Faculty of Physics, Bucharest-M?gurele, P.O. Box MG 11, 077125, Romania University of Antioquia, Medellin, Colombia *E-mail: Abstract A coherent set Page 23/27

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Computational Physics: Problem Solving with Python

There are several reasons that we have chosen to use the Python programming language in the Cardiff computational physics courses: Python is an interactive language. This means that you don't have Page 26/27

to compile and then run the code before you see what it does; you can execute each line as you type it.