POTENTIAL

for POTENTIAL	DIBLE
=	+ 00 +
Dot =	Emoro + Dos +
	Usce simple sum Blc the dinamics are timene Used: "Dice"
	UPE 18NT NICE -> [non-linear] either do q clever expension in: [compute]
EXPERIMENT:	big 80ience -> big data

EXPERIMENT: big science >> big date)

graph paper -> spreadsheet -> csv,...

uppe mutilim DATA

(meas, uncertainty
spectrum of a pulse
momenta of 1005
of particles.

gotta pracess H

BONUS: PANDON H'S COMPUTERS OF GREAT

FOR THIS

IN PHYSICS STATISTICAL

SO WE CON SIMULATE Madels that are based on inherent randomness

leg determine collective behavior of zillions of electrons in a material.

class goals: -thave a break early

EACH CLASS:

- feel free to bring laptor

- · ~ 1/2 THEORY (tagetter on WHITE)
- · BREAK
- · occasional index and why: actual feedback
- 2 HW/WE: short (2 days) + long (1 days)

 CEVBOUT on github

· ALBORITHMS for CS

"s not "oumer bal recipes"

they work ? When they don't!

- PROGRAMMING - you about know abough
We will use Python 3+Jupyler.

"oold code" in this dass.

... Use whatever refs you want

you will be responsible for understanding.

MASE ABERINE, vot brogstaming.

LANGUAGE: Fython 3 + Jupyter + Gittlub (READABLE POPULAR EASY USEPUL

sharing apple

these 3 skills are essential for (a) modern physics

(b) software industry

ALADEMIC INTEGRITY:

· adlaborate 3 we will be very street

WMAN THOUGHT is often essential

[, [f,(x)-f2(x)] O(f(x)-f2(x))

 $f(x) = (small) x^2 + (small positive)$ fo(x) = (big) x2

SIMPLE NUMERION INTEGRATION WAS SUM, UNRELIABLE Myth;

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