NYUPA	ysics I - 2016-10-04.
	- Reading: momenhen & height collisions
1 Fdog	elastic 2 inelastic
La Falog	- Problem sets - help.
Img	- Exam 2: ps 3,4; = 10 +0 day

- Qs.
- elastic collisian.

linear momentun of a patiete P=8mV ≈ my 8= 1- Y3 for our Kinetie energy of a particle bmboss s = 2mv2 Ez=Mzc++bzcz (ic month) @ rxxc Lec 44 mc2 KE= m2c4+bscz - mcz > ((1+E) = 1+NE+... = MC, It bscs mcs Taylor Series. = mc3/(1+ f Biss) - mc3

KE = mc2+ 2 Profiner-m2

= 2m = 2mv2

Oconservata vs invariance absorps true sometimes.

© Conservation happens in a well-defined (releance frame - coordinate axes - zero of velocity Newtonian.

LAB vacuum after LAB +3ms-1 -1 ms-1 Ika 3 Pricharless toble PA = MAVA = + 6 49 = PB=MBVB=- | hg = total 5=+5 ham invariant Ka= 9 kg N2 = 9 J KB= \frac{1}{2} J

total K=5 J invariant

PA=+2 hg mr PR= - 2 hqm5-1 KA=主物学 Kg=2 hg ===

alked com

P= 0 hyms-1