

#flo #inclass

1 | Semester 2, day one!

"we are made of stardust" - the way the universe understands itself? #cool

intros! sick.

we are gonna go into: - relativity - special relativity, - general relativity - spacetime and such - nuclear phys - quantum - atomic theory - the standard model - quantum gravity - then, dark matter and such! physic@nueva!

but, we are gonna start at **special relativity** the intro was, KBxSpecialRelativityIntro this is a special case, when the reference frames are not accelerating

u is defining a frame of reference, where v is the velocity of something she is watching? monica is x

we can draw the t' axis, which is the primed frame of reference slope is $1/u$! the point is, as she slides along the line, she will always stay at $x=0$.

x determines $t=0$

x axis stays constant w/ x'

1.1 | equations

$x' = x - ut$ $t' = t$ $v' = v - u$ only if the reference frames intersect at $t = 0$!