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# LabPhysics\_IS5\_20151012\_Seg35.pdf

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```
Setting: physics lab
Participants: IS5 (female, black sweater), S1 (female, brown
shirt), S3 (female, colorful scarf)
               when you ((unclear)),
Xxx IS5:
               you need to give me the (errors right)?
Xxx
Xxx
               (.2)
Xxx s1:
               the ((unclear)) pointing up?
Xxx IS5:
               yea its a experiment ((unclear)),
Xxx
               SO
               this one is a plus,
XXX
Xxx
               so p
Xxx
               this is the (errors).
Xxx
               because momentum
Xxx
               (the errors of this one),
Xxx
               square of this one,
               plus,
Xxx
               the square of this one,
XXX
Xxx
               ((unclear))
               ((points to the blackboard and S1 looks back))
Xxx
Xxx S1:
               ok and that's going to be the momentum?
Xxx IS5:
               momem- e (error) of the momentum.
Xxx S1:
               ok so-
Xxx IS5:
               momentum is the (.) value of these two.
Xxx S1:
               o ok so you want us to do that one and get the
               answer (for it right here) -
Xxx
               yea first first of all you need to ((unclear))
Xxx IS5:
Xxx
               this is not the standard.
Xxx S2:
               (do you add those)?
               (do you add the square minus) the -
XXX
Xxx
               ((unclear))
Xxx IS5:
               yes yes exactly.
Xxx S1:
               wait are you saying we have to write the
               uncertainty [here?
Xxx IS5:
                           [yes of course
Xxx S1:
               (for all of these)?
Xxx IS5:
               yes
Xxx S1:
               ok
               ((she starts solving it on the paper))
Xxx IS5:
```

```
Xxx
               and this section,
Xxx
               you know what square root bracket means.=
Xxx S1:
               =mhm
               uh small or=
Xxx IS5:
Xxx S1:
               =biq
               the small one or the large one?
Xxx
Xxx IS5:
               so if a plus two mean A small equal to A
               right?
XXX
Xxx
               ((unclear))
Xxx S1:
               ok
Xxx IS5:
               m m this one is the value,
Xxx
               this one ((unclear)) minus ((unclear)),
Xxx
               the region,
               right.
XXX
Xxx
               this is uh after this is ((unclear)),
Xxx
               I need this to overlap.
               like this is axis right?
Xxx
               we should directly ((unclear)) =
Xxx
Xxx S1:
               =ok
Xxx IS5:
               ((something around regions))
               and we could overlap ((unclear)) =
Xxx
Xxx S1:
               ((unclear)) overlaps means if it hits each other
               and it goes in the same direction?
XXX
               >no no no< overlaps mean these two region.
Xxx IS5:
Xxx
               this is the p(.2) before,
Xxx
               this is the p after (region),
               and this X is like-
Xxx
               P minus P plus P Y.
Xxx
Xxx
               this is the P region of the ((unclear)) =
Xxx S1:
               =ok
Xxx IS5:
               the P is ((unclear)).
Xxx
               (and this is P 1 minus P prime),
Xxx
               (this is P 1 plus P prime).
               (so this region might be this region).
Xxx
Xxx
               so if this two region have the overlap,
Xxx
               I mean this section- overlap section,
Xxx
               so it is conserved.
Xxx
               P is conserved.-
               is this ((unclear)) is uh
Xxx
               ((writing it down ))
Xxx
               the P minus-
Xxx
```

```
this is the region of one-
Xxx
Xxx
               so this is ((unclear))
Xxx
               ((unclear something is conserved?)).
               you have to get the errors before you
Xxx
3:00
               verify if it is conserved or not.=
Xxx
Xxx S1:
               =ok
Xxx
               ok thank you
Xxx S2:
               ((unclear))
               no the error is uh
CLF IS5:
CLF
               you (can an error)
CLF S2:
               ((unclear))
               ((unclear: something is small))
CLF IS5:
CLF
               ((unclear)) or not
CLF
               do you understand?
Xxx S1:
               no
               like not at all
Xxx
Xxx
               ((IS5 and S2 collapses from laughing))
               I mean it's ok we'll figure it out.
Xxx
Xxx S2:
               ((unclear))
Xxx IS5:
               ok
Xxx S2:
               wait ok so we-
               ok so I can give you an example.
Xxx IS5:
               I can give errors of P ((unclear)).
Xxx
Xxx S2:
               ((unclear)) so ((points))
               that's uh- ((grabs paper and pencil))
Xxx IS5:
               an:d,
XXX
               I will show you.
XXX
               this is so-
Xxx
               the region,
Xxx
Xxx
               can you come to this side?
Xxx
               it's hard to-
               and the- the- ((unclear))
Xxx
Xxx
               so ((unclear)) 9.008=
Xxx S1:
               =32
Xxx IS5:
               yes plus or minus
Xxx
               this is the errors of the momentum before,
Xxx
               clear?=
Xxx S1:
               =ok
Xxx IS5:
               0 0 0 [1
Xxx S1:
                     [1 7
```

```
=so that's the error?=
Xxx
               yes ((unclear: something about momentum))
Xxx IS5:
Xxx S1:
               so here I'm going to write plus or minus 0.01017
               so they [give it to us some but not all?=
Xxx S2:
                       [yes ((to S1))
Xxx IS5:
               =uh no before they ((unclear))
Xxx
Xxx
               cuz it is uh-
Xxx
               one of them is at rest.
Xxx
               so there is no (values that it is zero) =
Xxx S2:
               =yea-
Xxx IS5:
               SO
CLF S1:
               so my kinetic energy after the collision-
CLF
               eh uncertainty- error is zero?
CLF
               this is zero there?=
CLF IS5:
               =yea
CLF S1:
               so it's 0?=
CLF IS5:
               =no
Xxx S1:
               oh ok no.
Xxx IS5:
               eh eh it (will always be sum of to this zero).
Xxx
               but the (three) one means it is zero
               so plus this one and this one
Xxx
               >but this is zero<-
XXX
               so just use this one as momentum.
Xxx
Xxx S1:
               (.2) ok
Xxx IS5:
               this this (represents zero).
Xxx S1:
               ok so (the 3) represents 0.
Xxx IS5:
               yea [exactly
Xxx S1:
                   [ok
               and for this one ((something about squaring))
Xxx IS5:
               so this is uh zero point zero-
Xxx
XXX
               ((unclear))
Xxx
               right?
               so the total momentum after collision
Xxx S1:
               what they're saying it's the-
Xxx
Xxx
               negative .002 square root,=
               =no no no ((points))-
Xxx IS5:
Xxx S1:
               oh just add those two together=
Xxx IS5:
               =yes yea
Xxx S1:
               ok so that's what we got- what we got-
Xxx
               the two after collision that what we got-
Xxx IS5:
               what you get is errors square pie square square.
```

```
I mean that this ((points))-
Xxx
Xxx S1:
               I mean what are we squaring that-
Xxx
               plus the bottom square root.
               yea just square=
Xxx IS5:
Xxx S1:
               root that and that's our uncertainty here?=
Xxx IS5:
               =yea=
Xxx S1:
               =ok
               ((unclear [because she speaks so softly))
Xxx S2:
6:00
Xxx IS5:
                         [ yea and then- ((stops and listens))
               ((whispers back when S2 finishes))
Xxx
Xxx S2:
               (([unclear))
                [which one do you [((unclear))
Xxx S1:
Xxx IS5:
                                    [yea yea yea
               ((unclear))
Xxx
               ((unclear something about verifying))
Xxx
Xxx S1:
               [yes
Xxx S2:
               [ok
Xxx IS5:
               I mean P minus (delta) P minus (delta) P
Xxx
               P is the region that-
Xxx
               this one minus this one.=
Xxx S1:
               =uhuh
Xxx IS5:
               ((motions for calculation))
Xxx S1:
               ((looks)) uhuh right there.
               ((punches in numbers ))
Xxx IS5:
Xxx
               right it is 0 point 0 right?=
Xxx S1:
               (.2) =uhuh
Xxx IS5:
               and ((continues using calculator))
               this is uh-
Xxx
               this is four?
Xxx
               uhuh ok
Xxx S1:
Xxx IS5:
               ((unclear))=
Xxx S1:
               =ok
Xxx IS5:
               ((unclear)) oh sorry this is ((still writing)) =
Xxx S1:
               ((writing))=
Xxx IS5:
Xxx S1:
               =ok
Xxx IS5:
               P (5) this region goes to ((calculates))-
Xxx S2:
               oh:
Xxx IS5:
               understand?=
Xxx S2:
               =yes
```

```
this is uh ((writes)) ((unclear))
Xxx IS5:
Xxx S3:
              ((unclear))
Xxx S2:
               so we are given uh kinetic energy ((unclear)).
              what do we do (with that value)?
Xxx S3:
Xxx IS5:
              this is ((unclear)).
              ok I see:.
Xxx S1:
XXX
               so the kinetic energy for us is gonna look like
               this.
XXX
Xxx IS5:
               yea yea and ((unclear)) don't change.=
Xxx S2:
              =yea yea oh
Xxx IS5:
               and this is zero so its very past ((unclear))
               so it's just going to be zero. = ((IS5 ignores
Xxx S1:
S1))
Xxx IS5:
              =this is the-
Xxx S1:
               so this is gonna be zero.=
Xxx S2:
               =yea
Xxx IS5:
               yea and (you said two weeks overlap) -
               with each other,
Xxx
               it is conserved.
XXX
Xxx
               but it it's not overlap.
               this one is ((unclear)) this one right,=
Xxx
Xxx S1:
               =yea
Xxx IS5:
               ((unclear)) is not.
Xxx S1:
               it's not-
Xxx IS5:
               SO
Xxx S1:
               it's not overlapping so it's not conserved.
Xxx IS5:
               so the same ((unclear)) to the other ((unclear))
               so get it now?
Xxx
Xxx S1:
               yea thank you
Xxx
               thank you very much
```