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**LabPhysics\_IS5\_20151012\_Seg34.pdf**

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Setting: physics lab

Participants: S1 (male, red shirt), IS5 (female, black sweater),  
S2 (male, gray)

Xxx S1: for the conservation,  
Xxx the momentum,  
xxx or kinetic energy,  
xxx these two numbers.  
Xxx IS5: >(you need to calculate the errors)<  
xxx >(did you calculate the errors)<  
Xxx S2: isn't the (errors) here?  
Xxx S1: right.  
Xxx IS5: no but this one is the (error) for this one.  
Xxx the (error) for the small one ((unclear))  
Xxx momentum.  
Xxx (.3)  
Xxx I mean total momentum means the small one (plus the  
xxx big one)  
Xxx S1: right  
Xxx IS5: and this for small one this for the big one  
Xxx you need to square [this one plus  
Xxx S2: [yea  
Xxx IS5: and then square root.  
Xxx S2: oh:  
Xxx IS5: and you know we we ((unclear))  
Xxx we need to make sure that-  
Xxx that uh- that-  
Xxx (we use q zero[ as the value),  
Xxx S1: [yes  
Xxx IS5: plus ((unclear))  
Xxx ((s1 nods))  
Xxx P zero minus ((unclear)) P,  
Xxx and you know what the square root bracket means?=  
Xxx S1: =yes  
Xxx IS5: ok ((starts writing out formula on sheet))  
Xxx this is a ((unclear))  
Xxx ((S1 nods))  
Xxx ((unclear))  
Xxx (these two overlap))

Xxx           like this is uh- ((unclear))  
Xxx S2:       is this it?  
Xxx IS5:      ((looks thinks nods))  
Xxx S2:       so then-  
Xxx IS5:      you need to give me your (errors) here.  
Xxx           ((.2))  
Xxx           ju- just-  
Xxx S2:       ((unclear))  
Xxx IS5:      yes ((something about writing ))  
Xxx           which is the region here,  
Xxx           and this is the region here,  
Xxx           and the overlap-  
Xxx           so it is [consistent .  
Xxx S2:                           [wow  
Xxx IS5:      if you don't- if you don't overlap it is not  
xxx           ((unclear))  
Xxx S2:       ok  
Xxx S1:       hhh