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**LabPhysics\_IS5\_20151116\_Seg38.pdf**

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**Setting:** physics lab

**Participants:** IS5 (female, black sweater), S1 (male voice), S2 (male voice), S3 (striped shirt)

0:14

Xxx IS5: ok it is T final minus T initial right?

Xxx S1: yes

Xxx S2: yea

Xxx IS5: so you know you know the error of

Xxx T final and T initial?

Xxx S1: no we do not know that yet.

Xxx uh the what

Xxx now we do know.

Xxx S3: oh so it's the error plus each other and square root

Xxx that

Xxx IS5: mhm

Xxx S3: is it is it adding the square root of the sum

Xxx IS5: yes

Xxx S3: it's the error in T final,

Xxx IS5: no because because

Xxx change of T equals T final minus T initial right

Xxx S3: yea

Xxx IS5: and you didn't add T initial and T final so

Xxx it is the error for the sum.

Xxx S3: ok

Xxx IS5: so the error is the error is the sum of the square

Xxx and then square root.

Xxx ((boys talk to each other ))

Xxx S3: so yeah is it 1.4?

Xxx it's 1.41

Xxx IS5: yes

Xxx S3: that's the ((unclear))

Xxx IS5: yea yea its

Xxx S3: because its 1 square plus 1 square which is 2

Xxx square root of 2 is 1.41

Xxx IS5: yes

Xxx S4: we did it!

Xxx IS5: so it- it shouldn't be one because you (took)

Xxx calculations so-

Xxx           you didn't measure directly.  
Xxx           you measure directly it's one  
Xxx           but you did calculations.  
Xxx           ((to girl))  
Xxx           1.4 because two significant figure