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OfficeHours_IS5_20160407_Seg02.pdf

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Participants: IS5 (glasses), I1 (dark blue shirt)

Setting: Office hours; I1 helping IS5 prepare for her presentation/meeting with professor by reviewing numerous papers and articles

0:00

xxx IS5: ((incomprehensible))

xxx I1: is that a famous↑

xxx ((incomprehensible))°

xxx IS5: uh this is

xxx I1: physicist

xxx IS5: ((points to page))

xxx th- this is ((whispers name of physicist))

xxx I1: ((incomprehensible))

EXC IS5 uh:

EXC how to say

EXC uh:

xxx ((pause))

xxx do you ↑know ((incomprehensible))

xxx no y-you don't know.

xxx I1: no ((shakes head and laughs))

xxx IS5: it's ok,

xxx it's just the terminology.

xxx I1: ok

xxx cool! (.2)

xxx IS5: a-and ↑this is a- a simple example↑ (of a) quantum

xxx mechanics (um)

EVC ((mumbles))°

xxx I1: mhm

xxx IS5: (he's) try to talk about

xxx uh

xxx (how) to give you the example of this one

xxx like

xxx to ((incomprehensible)) you something:

xxx (quantum mechanics).

xxx I1: ok

xxx ((flips and points to page))

xxx so these are (.) the preparation, and readouts?

xxx IS5: ((reads and mumbles to self))

xxx yes.

xxx yes.

xxx this is [((incomprehensible))

xxx I1: [(and those are the:

xxx bits=

xxx IS5: =yea

xxx this is the (state)-

xxx the bits.

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xxx (and it says on the graph) two bits.
xxx I1: ((whispers)) zero zero
xxx IS5: ((points to page)) zero? or one.
xxx I1: yea
xxx IS5: (but in this two state)
xxx the first is zero (then) zero
xxx first is zero
xxx but like then I [((incomprehensible)) two particles,
xxx I1: [oh:
EXA IS5: >the first particle ((incomprehensible))
EXA ((incomprehensible)) second is in [(.) one<
xxx I1: [cool
xxx IS5: so yea
xxx yea
xxx two bits
xxx I1: I see.
xxx IS5: (too confusing)=
xxx I1: =[one is really exceeds two
xxx then when do you need a third digit (.1)
xxx never?
xxx IS5 if you misunderstand just add a zero or one
xxx because it's same in the quantum
xxx (in th- in the classical base)
xxx because it
xxx like
xxx (where) it is zero one [zero one
xxx I1: [mhm
xxx IS5: you never (show up to) if (there is two a two would be
xxx one).
xxx (you know)?
xxx right?=
xxx I1: =yes
xxx IS5: yea
xxx see
xxx I1: ((reads paper more)) optical photon
xxx IS5: yea
xxx this
xxx this is a candidate (too)
xxx ((drops pen)) sorry
xxx I1: (can we do it to evaluate whether a-)
xxx IS5: no ((incomprehensible)) (two of) the bits
xxx I1: oh:↑↓
xxx ((whispers)) photon°
xxx ((mumbles))
xxx IS5: uh
xxx we could use the polarization for ((incomprehensible))
xxx [((mumbles))
xxx I1: [.hhh
xxx ((points to page)) something ↑cool here

xxx what's this?
xxx IS5: ((leans in and squints at page))
xxx ((mumbles))
xxx ((pause))
xxx I1: (you have) ↑laser and ↑crystal
xxx IS5: yes.
xxx hm:↑
xxx and then this is the: input
xxx and this is the material to make the transformation
xxx and this is the out (.) put [((trails off))
xxx I1: [ok
xxx what does the dot mean
xxx IS5: ((leans in)) dot?
xxx I1: ((laughs))
xxx IS5: I don't know
xxx maybe-↑
xxx it's just a symbol
xxx yea but
xxx I1: that is a [cool dot
xxx IS5: [what this wave
xxx means then
xxx ok look
xxx the dot↑ I guess mean this is b minus
xxx ((pointing at the paper when she says "this"))
xxx (the upper minus the:)
xxx I1: ((leans in)) yea
xxx IS5: like
xxx I1: oh: ((points to page)) there's something here.
xxx IS5: this is ((incomprehensible))
xxx (which means the complex continue)
xxx I1: is it?
xxx IS5: yea.
xxx I1: ((.3)) ((nodding))
xxx fancy
xxx IS5: mhm yea
xxx I1: [mysterious
xxx IS5: [it's fancy
3:00
xxx I1: ((flips page and points))
xxx oh again?
xxx IS5: ((laughs))
xxx I1: (with a pi)
xxx ((flips page))
xxx oh↑ (cool).
xxx I think- ((flipping pages))
xxx another matrix!
xxx IS5: yea actually↑
xxx what does it mean?
xxx ah yes matrix

xxx ah!
xxx um:
xxx you can treat this as the mathematical
xxx (representation) of the (.) transformation.
xxx I1: mhm
xxx IS5: ((incomprehensible)) matrix
xxx I1: ((points to page)) ↑what does this symbol mean↓
xxx (a circle with a dot)
xxx IS5: uh ((inaudible; loud banging outside))
xxx I1: oh
xxx ((incomprehensible))
xxx I guess physics [(.) is special
xxx IS5: [uh
xxx it's not for
xxx like
EXC (mult- multiplication) of two (a real) numbers
EXC ((incomprehensible))°
xxx I1: oh:
xxx so it's used only in matrix
xxx IS5: yea you can think it
xxx is used for matrix°
xxx I1: cool
xxx ↑(drawbacks)↓
xxx IS5: ((inaudible speech))
xxx I1: they have a ↑lot to say about drawbacks.
EXC IS5: uh
EXC th-
EXC uh
EXC it's-
xxx I need to print all of them so
xxx I1: alright
xxx IS5: mhm
xxx I1: ok
xxx so you are done
xxx talking about quantum to me today
xxx ((laughs))
xxx IS5: ((laughs))
xxx (ah:)↑ quantum
xxx ((looks at wall, thinking))
xxx I1: ((slight nod))
xxx IS5: yea
xxx it's uh
xxx modern physics
xxx I1: so after↑ (.) your meet with your professor
xxx you're going to present↑ this in class?
xxx IS5: yea
xxx I1: ok.
xxx IS5: thirty minutes?
xxx I1: thirty minutes↓

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xxx oh!
xxx ((lifts paper)) just this
xxx IS5: ((nods))
xxx I1: (gonna talk about this)°
xxx ((nods))
xxx print out? or (.) powerpoint=
xxx IS5: =powerpoint.
xxx I1: ((looking through paper)) powerpoint
xxx so you're going to (.1) copy those (.) images=
xxx IS5: =yea
xxx I think so
xxx I1: ((nods))
xxx **↑awesome**
xxx IS5: yea
xxx if I can make sense clear
xxx it's awesome.
xxx I1: yea=
xxx IS5: =if I can't↑
xxx ((smiles nervously))
xxx it's (really) awkward
xxx I1: how many students are in this [(.) seminar
xxx IS5: [uh:
xxx I1: more than ten?
xxx or [less than
xxx IS5: [yea more than ten.
xxx I1: more than ten
xxx is this a very interactive seminar?
xxx IS5: [uh:
xxx I1: [do people talk?
xxx IS5: uh
xxx like
xxx this is a ((incomprehensible)) we are-
xxx we have to choose these courses=
xxx I1: =mhm ((nods))
xxx IS5: but
xxx you can choose it uh
xxx in- in- in- an- in (.) any semester
xxx I1: mhm
xxx IS5: of
xxx uh
xxx in (the first two years).
xxx I1: ok
xxx IS5: so um
xxx **S0 ↑every** students has to talk
xxx like
xxx I- each week there are two students to talk about (.)
xxx something
xxx I1: ok
xxx IS5: everyone has thirty minutes to talk,

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xxx and two minutes maybe,
xxx questions
xxx I1: ((nods)) alright
xxx what time is (this)
xxx IS5: ((looks at laptop screen))
xxx ↑two (.) forty-three
xxx I1: ((looks surprised)) two thirty-three?
xxx IS5: two ((incomprehensible))
xxx I1: ((gets up)) let me↑
xxx um
xxx check the video.