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Setting: mild classroom Participants: I1 (glasses, female), IS31 (black vest) I2 (behind camera, female) 0:00 XXX: I1: ok XXX SO since you're XXX uh mentioning↑ (.) about applying- (.) XXX XXX since you're mentioning applying your field XXX to things XXX like XXX airplanes↑ XXX and like XXX testing against wind but then you're also mentioning like equation stuff, XXX XXX IS31: [ah XXX I1: [like uh XXX XXX what type of knowledge goes into your field? XXX so like (.1) so you said it's engineering, XXX it's- you-doesn't engineering (.1) PhD? XXX XXX IS31: uh: XXX I1: or-XXX IS31: you mean XXX [AMS it's AMS, XXX IS31: [uh I am XXX yea AMS um (.) uh: XXX XXX yea XXX maybe, XXX in the mechanical engineering department XXX they also (.) do some (.1) similar research XXX and: the: necessary knowledge may be (.) XXX you should be familiar with (.1) uh XXX partial differential equations and uh (.) XXX something about computer science XXX XXX I1: ok XXX computer science XXX IS31: [yea because you: we- we need to program in computer XXX I1: [mechanical engineering (.)

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XXX [ok XXX IS31: [and we need to understand how (.) this program EXC uh EXC scute EXC uh executes° EXC ((nods)) yea XXX XXX I1: ok XXX so you guys are (.) applied math (.1) XXX just regular math↑ XXX do you need to know like regular (.1) XXX IS31: [uh XXX I1: [theoretical (.) [math too? XXX IS31: [yea theoretical math are: EXC uh: (.1) EXC learning about theory ((laughs)) EXC uh actually EXC uh: the EXC the EXC the name applied math EXC uh EXC uh: they are: (.2) mainly EXC uh EXC the main mean- the main (.1) XXX range of applied math is only about (.) how to solve partial XXX differential equations XXX I1: ((leans back)) ((mouths oh)) XXX th-th-though we call them applied mathematics EXC but EXC the the (.1) uh: EXC EXC I mean XXX a-at least (.) in many universities XXX in applied math (.) department EXC the professors (.1) uh main task (.) aor main research a-EXC uh (.1) EXC EXC uh error is about (.1) solving XXX partial differential equations° XXX I1: oh::= XXX IS31: =yea uh various (.) kinds of (.) partial differential equations XXX XXX I1: really, XXX IS31: yea though in Stony Brook↑

```
XXX
           uh there are many other: (.1) aspects (.) in: (.) in this
XXX
           department
XXX
           but (.)
XXX
           uh
XXX
           typically (.)
           applied math just mean (.) solving partial differential
XXX
XXX
           equations ((chuckling))
XXX
           vea=
           =I didn't know that
XXX I1:
XXX
           I feel educated
           ok
XXX
XXX
           I almost minored in AMS
           now (.) I'm kind of ((incomprehensible))
XXX
XXX I2:
           I-I have a really:
XXX
           really naive question
XXX
           why is partial differential equations that important?
XXX IS31: oh ok
           ((laughs))
XXX I1:
XXX I2:
           you're going to laugh at my question ((chuckling))
XXX IS31: no no
EXC
           uh: (.1)
EXC
           uh
EXC
           because, (.1)
EXC
           um
XXX
           almost all (.1)
XXX
           I mean like physical roles are (.) uh (an inherent) roles
XXX
           they are always (pressed) in partial differential equations
XXX
           because
XXX
           uh:
XXX
           the- the simple equations are t-
           because we- we need to (.1) study the change
XXX
XXX
           ((I1 slightly nods))
           for example like the change of water↑
XXX
3:00
XXX
           and the- I m-I mean no- not (.) the change of temperature,
XXX I1:
           mhm
EXC IS31: or the change of (.)
EXC
           uh:
           your: (.) velocity \uparrow [(.) or so on
EXC
XXX I1:
                                   [mhm
XXX IS31: uh
XXX
           and uh
XXX
           if you- (.1)
XXX
           I think if you have learned calculus you should know that
XXX
           the derivatives (.)
```

```
XXX
           just mean: the changing rate
XXX I1:
          yea [yea yea
XXX IS31:
              [right,
XXX
          yea
XXX I1:
          yea=
XXX IS31: =so
XXX
          that's why: almost all roles (.) will involve (.)
XXX
          derivatives
XXX
          and uh (.1)
XXX
          once there are more than one variable
           it will become partial derivatives
XXX
XXX
          so that's why (.1) almost all programs are related by some
          (.) partial differential equations
XXX
XXX I1:
          what makes this different from like physics?
XXX IS31: u:m
XXX
          the:
XXX
          ph- physics they are:
XXX
          they just want to: get (.) the (.1)
XXX
          like such roles
XXX
          like such (.) differential equations
XXX
          but they don't care much about how to solve them
EXA
          they think oh that's a task for (.) mathematicans ((does
                pronounce it "mathematician"))
not XXX
XXX I1:
          oh
XXX IS31: yea ((laughs))
XXX I1:
         oh
XXX
          ok
XXX
          ((both laugh))
XXX IS31: ah
XXX I1: ((mouths oh))
XXX
          ok=
XXX IS31: =uh maybe the:
XXX
          in the beginning
          I mean like uh
XXX
XXX
          uh:
XXX
          three or four hundred years ago
XXX
          uh
XXX
          the science (.)
          is not (.)
XXX
XXX
          well uh developed
XXX
          and one person can (.)
          do: physics and math
XXX
XXX
          uh: simultaneously
XXX
          but now as there are so: much knowledge
XXX
          um
```

```
XXX
           so everyone (.1) n- nobody can learn (.) s- all the (.)
           aspects°
XXX
XXX
           so they should (.) all have their own (.) objects
XXX
           so for physics they (.)
XXX
           their main: objective is to discover (.) new (.)
XXX
           things
XXX
           new rules
XXX
           but (.) they are not very:
XXX
           um
XXX
           focused on (.1) how to solve such equations
XXX I1:
           ((mouths oh))
XXX IS31: yea.
XXX I2:
           huh
XXX I1:
           WOW
XXX I2:
           I have a crazy question I'm gonna ask
XXX
           ok
XXX
           so
XXX
           if you say partial differential equations take into
XXX
           account very many different variables↑
XXX
           and (.) it's meant to: (.) account for change
XXX IS31: mm ((affirmative))
XXX I2:
           right,
XXX IS31: ((mouths yea))
XXX I2:
           now can (.) can these sort of equations (.)
XXX
           uh solve social science problems
XXX
           let's say we are now facing the presidential election
XXX I1:
           ((nods)) mhm
XXX I2:
           right?
XXX
           there are so many variables
XXX
           we don't know who is going to win
           I'm afraid some peo- you know
XXX
           I'm scared of some of the candidates
XXX
XXX
           but (.1)
XXX
           so
XXX
           uh
XXX
           let's say we know all the variables
XXX
           we know the voters' socioeconomic background↑
           their voting history:↑
XXX
XXX
           their-
           you know there's some variables
XXX
XXX
           is (.1) can AMS (.) help us (.) predict↑
XXX
           for example what the (.) election outcome might be? (.1)
XXX
           Krystal [does that sound like a fair question?
XXX I1:
                   [oh
XXX
           uh maybe?
```

```
[is it-it sounds kind of di-
XXX
XXX IS31: [I-I- (.) I understand
XXX
           uh s- ((looks to I2 then to I1))
XXX
           so yea
XXX
           ok
XXX
           so:
XXX
           yea I know-
           uh first uh
XXX
           there is a trend that the
XXX
6:00
XXX
           social science↓ want to use
XXX
           (quantitative matter)
XXX
           in their own (.) aspects
XXX
           but (.)
XXX
           um
XXX
           actually
XXX
           though many people think that math is (.) difficult
XXX
           ((I1 nods))
XXX
           uh compared to many other: (.)
XXX
           uh:
           I mean subjects
XXX
XXX
           but actually in social science↓
XXX
           the questions are:
XXX
           why (.) social science don't (.1) use many quantitative
XXX
           matters now is that (.1) the programs in social science are
XXX
           too: (.) difficult
XXX
           ((I1 nods))
           to deal with
XXX
XXX
           because
XXX
          for (.) example like in: physics
XXX I1:
           ((nods))
XXX IS31: a function only depend on:
XXX
           uh we say many
XXX
           that is just mean more than one
XXX I1:
          [yea
XXX IS31: [but
XXX
           actually it's not very many
XXX
           just uh like three,
XXX
           or two,
XXX I1:
           mhm
XXX IS31: or four
           like so on
XXX
XXX
           but (.) as professor mentioned
XXX
           ((motions to behind I2))
XXX
           in social science there are many: (.) too many (.1)
```

```
XXX
           variables
XXX
           uh
XXX
           maybe bi- millions↑
           or like so on
XXX
           and we don't know the (.1)
XXX
XXX
           uh
XXX
           accurate (.) relation between the- the
XXX I1:
           ok ((nods))
XXX IS31: for example
XXX I2: ((understanding)) mm
XXX IS31: uh in physics
XXX
           uh:
           the: (.1) the force between two objects
XXX
           they can be:
XXX
EXA
           ((incomprehensible)) by their mass\uparrow (.)
           and [their distance
XXX
              [yea yea yea ok
XXX I1:
XXX
           I learned about that=
XXX IS31: =but
EXC
          now (.1) in social science (.)
           we (.) don't know (.) what the (.)
EXC
EXC
           like
EXC
           what your:
           uh vote decision are (.1)
EXC
           uh determined by like your:
EXC
           education↑ (.) or your: income or so on
XXX
EXC
           w-we can't (.1) uh get the:
XXX
           actual accurate relation
XXX I1:
          ok
XXX IS31: so we
XXX
          there is no (pd) so
XXX
           how to solve ((laughs))
XXX
           yea
XXX I2:
           m:
XXX I1:
           oh yea
XXX
           that makes sense because it can be like
XXX
           oh yea
           you seem like a person from this background
XXX
XXX
           so you're gonna vote for this person but really
XXX
           they had like a friend
XXX
           or something else [affected them but that just changes
XXX IS31:
                             [yea yea
XXX I1:
           everything=
XXX IS31: =yea
XXX
           SO
```

```
XXX
           so the social science are (.) something that
XXX
           really really very (.) sophisticated
XXX
          much more sophisticated than natural science
XXX I1:
          ok
XXX
          so because the variables aren't so
XXX
          like
XXX
          well defined,
XXX
          they're not like discrete variables,
XXX
          it's hard to (.)
          it would be hard to predict (.1) what people (.) are doing,
XXX
XXX
           is that- was- is that what you were saying?
XXX IS31: yea and I: and uh (.) what I want to (.) emphasize is that
          we don't know (.) the (.1) accurate function now
XXX
XXX I1:
          ok
XXX IS31: yea
XXX I1: that makes sense
XXX IS31: yea
XXX I1:
          ok
XXX IS31: and uh
          yes, (.) there are some (.)
XXX
XXX
          now there are some maybe (.)
XXX
          maybe used for (.) (manners) to predict
          uh th-that's based not on partial differential equations
XXX
          they are just based on
XXX
          uh: statistical matters
XXX
EXC
          that is we just uh:
EXC
          uh (.) give some probability
XXX I1:
           ((nods))
XXX
           [ok
XXX IS31: [but
XXX
          you know
XXX
          uh (.) pd is (.) the- the
XXX
           the idea of pd are that everything in the future↓
           are: determined by it's present (.1) uh conditions
XXX
9:00
XXX I1:
           [ok
XXX I2:
          [what's- what's PDE?
XXX IS31: uh [partial differential equation
XXX I1:
              [((mouths/quietly says)) partial differential
XXX
          equation
XXX I2:
          oh
XXX I1:
          ok
XXX I2:
          sorry
XXX I1:
         [I heard it I was like
EXC IS31: [a- a- a- and and: the:
```

```
EXC
          and the:
          and uh: statistical matter are: based on
EXC
EXC
          uh
XXX
          a different (.) idea
          that is we (.) can't (.) predict accurate (.) future
XXX
          (.) conditions
XXX
          we just g- give some
XXX
XXX
          maybe most likely (.) result
XXX
          yea
XXX
          maybe that's more useful in social science
          I'm not sure
XXX
XXX I1: oh ok
```