

There are 3 people in the room.
Frank: hi Annie
Doos: hi annie
Annie: Hi Doos, Frank, How are you
Frank: good, and you?....happy new year
Annie: Happy New Year
Annie: not bad, can be better
Annie: just let me adjust this screen, i ca
Doos: poor annie got thrown out of all bars for harassing the bartenders
Annie: I can't see my smilies again
Frank: lol
Frank: I used to tend bar...never threw a lady out for harrassing me though
Annie: lol
Doos: true
Annie: give me a minute
Doos: 45 seconds
Annie: start count
Doos: too late
Doos: 30
Frank: we have ignition
Doos: women! they think a minute lasts forever
Annie: ok not very well, but will do, i see only half of them
Frank: well they do have small hard to see watches
Annie: lol
Annie: a minute is a long time maybe it will last forever if worth it
Doos: thats what I mean
Doos: why not get an orgasm and roll over
Annie: yep, i just had to agree with you
Doos: but nohoo...
Annie: how was your new year Frank, Doos
Doos: was okay, I was at my moms place
Frank: late and sadly overly indulged
Doos: I came home and watched a spanish "artsy" movie
Annie: oh i thought you stayed there for a while Doos
Doos: yes an hour after midnight orso
Frank: I miss Scotland at new year get all maudlin and burst into auld lang syne
Doos: sounds like fun
Doos: reminds of my childhood days
Frank: it's better when theres a group....wife and kids go to bed and leave me to it
Doos: mom and dad totally drunk at the neighbours place and if they ran out of beer, on to the next door
Frank: yes when I was a kid you could knock at any door and find a welcome
Doos: funny that that is over
Annie: sorry i was answering my mobile phone
Frank: changed now though...to much violence and thievery
Doos: oh baby it's a wild world
Annie: good old days were always a little more friendly, not so much anymore
Frank: funny thast it's the same all around the world
Doos: darned americans influenced us
Frank: is society breaking down or have we all become boring old farts
Doos: lol
Annie: oh, yeah, i had a guy follow me the other night,
Doos: did you rape him?
Frank: scary

Annie: lucky he got scared when i told him to piss off
Frank: love the Australians for there up front candour
Doos: you should have ****ed him till blood came out of his eyes
Annie: lol
Frank: ooo you dutch are so deviant
Doos: we learn that at school
Annie: oh dear oh me
Frank: yes I hear there is a move to reduce the age of consent to twelve in holland
Doos: that and smoking
Annie: then i met this guy on the plane, who invited me for dinner
Doos: is there?
Frank: thats at least civilised
Frank: I heard that about five years ago
Doos: you took the plane home?
Doos: nah frank, we're crazy, but not that weird
Doos: anyways, she's 17 now, so its okay
Frank: lol
Frank: so annie...did you accept?
Annie: Doos, do you know if anyone else is coming tonight
Annie: other than us 3 musketeers
Doos: I have no idea
Annie: which Frank, the dinner
Frank: shall we begin?
Frank: yes
Annie: oh no. ... very politely,
Doos: yes, lets begin
Frank: thats better than piss off....but then he was more civilised as well
Doos: lol
Annie: yes
Frank: OK...whats the big deal with dispersion...why do we have to learn the value when measuring it seems to almost never happen or have any use in identification?
Doos: well it creates fire
Doos: and fire is why we love diamonds
Doos: so it's a diagnostic value
Annie: it is sort of a power of a transparency which can split light so dramatically, creating rainbow of colours
Annie: like diamond is very famous
Annie: brb
Doos: ok
Frank: ok...but why learn the value for every stone...
Doos: the eye is the first and most important tool in gemmology
Doos: that is theory
Frank: yes and fire makes a stone attractive
Doos: if it was up to me you got away with low, medium and strong, but I didnt make the course
Frank: but there is no equipment for easy measuring...so it's not that important in diagnostics
Doos: it is
Doos: if you see enough CZ's and diamonds, you can spot it most of the time just by eyeballing it
Frank: I've never read a chapter in any book which claims the dispersion value as a means to identification
Frank: I grok that...but thats a visual estimate not a measured value

Doos: it is important to know it exists and therefore I think it's good to know
Doos: that's "doos" logic
Doos: it's like colour, very hard to measure but very important
Doos: in diamond cutting it's very important btw
Doos: so if you see a diamond that is a bit dead, you'll know there is something wrong
Doos: either with the stone or the lighting
Frank: Ok..and I can see it's good for diamonds...even demantoids and sphenes...but with no easy way to measure it it still seems like a value which may give an indication of fire...but no better than good medium and poor
Doos: sorry buddy, gotta learn it even if I agree with you
Frank: OK...drat....there's never an easy way
Frank: Did you read my emerald form habit posting?
Doos: yes I did
Doos: did you read Michaels posting on that?
Frank: yes
Frank: I tried to say it in as short but accurate a way as possible
Doos: that was the correct answer (I didn't want to say that in the forum straight away to let others think about it)
Doos: I sent him a pm of course
Frank: I thought so...which was why I was so long posting an answer....I tried not to directly plagiarise him
Annie: sorry
Doos: lol
Annie: my daughter came
Frank: do you need to go?
Annie: no
Doos: you have a better answer to "why the heck should I learn all the dispersion values" annie?
Annie: it's fine
Doos: you can go if needed annie
Annie: no,
Annie: Frank, I don't think it's such a great deal to learn all
Frank: Me neither...I just wasn't sure what the point was
Annie: it's pure theory and it can be measured if you wanted to
Frank: now doos says there is no point...so I'll learn them cos I'm told to
Annie: but it's good to know a few important ones
Doos: if you like photons and quanta
Frank: I've been reading about valences
Annie: you like physics
Frank: yes
Annie: and science
Frank: I'm an electrical engineer by profession
Annie: oh yes of course
Doos: dive into Fraunhofer and explain it to me when you understand it
Frank: though there's no industry here so I reduced to wiring holiday homes for rich Angles
Frank: The absorption lines?
Doos: yes, he invented dispersion
Frank: bastard
Frank: lol
Doos: well "rediscovered"
Annie: he was German

Frank: yes but to measure the refractive index at 686.7 and again at 430.8 seems a long way to go for a value no one uses

Doos: he didnt have gemmology in mind

Frank: Sorry..got the book in front of me

Doos: B and G

Doos: oxygen and calcium

Annie: he took it from its orgin of refractive indexes

Frank: Why did he choose the B and G lines?

Doos: there are a lot of signs he gave to them

Annie: these are respectively and very close to two limits of human vision

Doos: the capital letters being the most important ones

Frank: ah ok

Annie: we can't see beyond the blue or violet rays or further than red

Frank: why cant we see em all with a spectroscope?

Doos: because a spectroscope breaks down visible light for us

Doos: the rest we cant see

Frank: ok

Doos: I think you need a spectrofotometer for that

Annie: only red, orange green blue and violet

Annie: yes if you wanted to measure the infrared and the other, you will go to GIA

Doos: or mogok

Frank: or gemca

Annie: or mogok yes

Doos: heh yes

Annie: and Gemca, i'd love to work for those guys

Doos: only a 30 hour flight away from you annie (atleast gemca is)

Frank: seems even mogoks going to gemca...yes a great setup gemca has....and a nice life mogok has

Frank: good luck to em both

Annie: and he is a teacher at AIGS

Doos: head of the lab

Frank: yes....where do you teach?

Annie: GAA

Frank: they must have a good equipment inventory as well

Annie: yes they do

Doos: did you buy your wife that refractometer she wanted for xmas frank?

Frank: not yet....I'm going to UK in Feb and will visit gem-a then they have a students one reasonably priced

Frank: and I want to look at it before I buy it

Doos: get a demonstration etc

Doos: (free lesson)

Frank: same with the student microscope (Gemoro) ...yes see if it lights up enough to read etc

Doos: cant you build your own fibre optic lamp from scratch?

Frank: theres a german firm on ebay with cheap refractometers and microscopes but if they're crap...well it's to late by the time they arrive

dbucfant entered the room.

Doos: hi dbucfant

Annie: hello Darren

Frank: hi dbuctfant....wow hard name to spell

Frank: darren is easier

dbucfant: hi typing stinks...dbuc is fine

dbucfant: hey annie long time!
Frank: ok dbuc
Annie: how are you
dbucfant: havent been around much anything new going on?
Frank: Yes doos if I can source the parts through my wholesaler I probably could
Doos: hook me up one aswell frank
Frank: I thought of building a polariscope as well
dbucfant: great...looking for a job...the one i have is not what i imagined
Frank: I found some 10 cm polaroid filters on the web
Doos: that costs 20 euros frank
dbucfant: brb...saying gnight to the kids
Annie: right o
Doos: frank, for the lenses you want to go to your local optrician and have them
cut for you, mine says it costs 20 /
pair
Frank: true...but I was dicking with the idea of a light source for all this
stuff and by the time I'd finished I'd
designed a sort of field kit....never thought of an opticians
Frank: where can I get a yellow monochromatic filter ...maybe the optician wold
know
Doos: they usually have more understanding of polaroids than the average photsho
Doos: sodium D
Doos: ask for that and chances are he knows what you mean
Frank: yes...is it low pressure sodium lamps they use?
Frank: you mean ask for sodium d filter?
Doos: dunno, I just have a sodium lens
Doos: yes
dbucfant: why would you build a polariscope
Doos: I am making a visual optics lamp with a polarising lens
dbucfant: they have many good ones on the market and you may find a decnt one
used on ebay
dbucfant: ohh
dbucfant: that explains it
dbucfant: i came late into the convo
Frank: I like building things...and these 10cm filters were cheap...and dunno
really why I need a 10cm polariscope
(big crystals?)
Doos: no, I havent mentioned that yet
dbucfant: sounds interesting frank
Doos: well frank, not all lenses are real polaroids, there is some junk out
there
Frank: dunno but better than hanging round street corners....well field corners
round here
dbucfant: lol
Frank: these were on a scientific website.....full of fun projects to do with
the kids...discovering science etc
dbucfant: tried the "grow your own crystals" kit with my nine year old...
Doos: I think I know which one you mean frank
dbucfant: the interest lasted 5 min.
Doos: heh
Doos: who are you dbuc, introduce yourself a bit
Frank: yes edmunds scientific or something like that
dbucfant: i had been on this site for a while before i moved...anyway...
Annie: i know, he is a GG
Doos: I'm planning on making a diffraction grating spectroscope aswell

dbucfant: 32...name is darren...married 3 kids
Frank: where are you
dbucfant: GG..yes
Annie: i remembered your name Darren
dbucfant: now in NC
dbucfant: was in CT
dbucfant: yes u did
Doos: ah so you are a long lost friend dbuc?
dbucfant: i remembered your as well
Frank: ah nice...my mum and dad do holidays there sometimes
dbucfant: yup
Annie: yes, so good to have you back here
Doos: I'm 39 dutch FGA
dbucfant: the move was a mistake...the store i work for here has a psycho for an owner
dbucfant: anyway...
Annie: oh, know that feeling
Frank: Is he called norman?
dbucfant: i want to move back to florida and i am looking for a job
Annie: lol
Doos: lol bates
dbucfant: no...lol...tim
Frank: in a store?
Frank: brb
dbucfant: anyway...he has the entire staff on eggshells...
Doos: psycho III in NC
dbucfant: tension city
dbucfant: it stinks
Doos: you mean north carolina right?
Annie: i worked for a place like that, know the feeling
dbucfant: yes
Annie: you better get out of there fast
dbucfant: i moved my family for nothing
dbucfant: iregret it now
Doos: most small entrepreneurs have a loose screw somewhere
dbucfant: i am working on it...resume is on monster
Doos: monsterboard?
dbucfant: this place is still hand writing rcpts
Annie: ohh
Doos: ah, no taxes
dbucfant: the owner can afford to drive a bently
Doos: probably because of the handwritten receipts
Annie: of course
dbucfant: a new one...150,000
dbucfant: the breitling bentley...uggg!
Doos: you get a shitty bently for that
Doos: oh a watch
dbucfant: v12...175mph...thats pretty fast 4 shitty! lol
Doos: true true
Doos: are you on orchid dbuc?
dbucfant: anyway...he gave me a really bad xmas bonus... you ready 4 this?
dbucfant: 250.00
Doos: coupon for macdonalds?
Annie: yes
Annie: duh

dbucfant: i am the gemologist...appraiser in training...salesman...asst manager...etc
dbucfant: this was all just a bad idea!
Annie: give me a break... you know you should give him a piece of your mind
Frank: er...was the dot intentional in that sum darren/
dbucfant: anyway my hometown is tampa...so i would like to mave there.
Annie: and tell him where he can go, once you get a better job
dbucfant: yes
Doos: why bother
dbucfant: the last five asst managers have left because of him i found out
Frank: nice feeling walking out of a shitty job...not easy with kids etc though
dbucfant: from current employees
Doos: just mix up all the repair bags before you leave
Annie: nothing is worse to be treated like shit
dbucfant: i want to but not till i have my next move lined up...the kicker is...
Annie: and bad management
dbucfant: his brother in=law is my landlord!
Annie: yes, just hang in there Darren
Doos: oh dear, he got you by the balls
dbucfant: tryin
dbucfant: thanks
Frank: yes I'm not mentally equiped to deal with it...it's why I spent so long self employed I guess
Annie: you don't need that crap with all the knowledge and skills and time and effort you are putting so he can get rich
dbucfant: ahhh the dream of being self employed tampa has a master valuer program at USF
Frank: try grinding paste in his petrol tank
Annie: I believe Tampa is a nice city
dbucfant: i want to get the appraisal degree then my worth will double..i assume
Doos: nah
dbucfant: i miss it...im a beach guy
Frank: how long is the course?
dbucfant: my wife wants to go back to CT
dbucfant: but i wont...too cold!
dbucfant: 80 HRS...i think
Frank: did you do a course doos? is it required here?
dbucfant: maybe 800...i could be wrong
Doos: I took a course and it's tough .. it's a free trade so you can call yourself an appraiser already (although you might find it hard to get assignments)
dbucfant: google master valuer program at the university of south florida for the info...dont have a link.
Annie: how do you mean Doos
Frank: OK last prepared question...then doos can log...and we can shoot the breeze or not as we like
Doos: anyone can call himself an appraiser, there is no protection
Doos: shoot frank
Frank: danburite, idocrase and rhodonite are all listed as having an optical sign that is both positive and negative....is this correct / possible
Doos: holy crap frank
Frank: from gemmology....peter g read
Doos: you sure can make us think

Annie: Danburite has BR of up to 0.006
Annie: very small so it can vary and may not be always determinable
Frank: sorry it's a bit of the posted subject but it's been bothering me
Annie: so therefore it is usually written as biaxial \pm
Annie: look it up if you want - you have peter read open, there
Annie: Frank, nothing should bother you and its ok to ask
dbucfant: very difficult determining an optic sign on a translucent or opaque stone isnt it? danburite would be the easiest to determine because it is transparent.
Frank: yes its in front of me...is it the smallness of the br that makes it indeterminable...or is it something else?
Annie: yes, the smallness of birefringence of the refractive indices
Annie: danburite should be 1630-1636
Doos: the gamma ray is probably moving so little to one end (alpha or beta) that is almost impossible to read
Annie: because with biaxial remember there is alpha is smallest gamma being largest and beta is intermediate
Annie: and when they overlap in such a small difference to each other it becomes difficult to ascertain
Annie: it is correct and also it is possible
Frank: Idocrase is even smaller at 0.005 but rhodonites br is 0.014 which is much bigger
Annie: i am not sure of idocrase for the moment but
Annie: see what it says for rhodonites
Annie: should be in 1700 range
Annie: or something
Frank: 1.72-1.74 br 0.014
Annie: there, yes
Annie: its a manganese silicate so its possible
Doos: frank, you need to find the 3 optical rays and the beta (where I said beta before) is should "lean" more to one end of the other two, since it is almost impossible to see it move to either end it's +-
Frank: I find it ok with the biaxials but idocrase is tetragonal...
Doos: (where I said gamma before)*
Annie: rhodonite is triclinic
Frank: yes
Frank: but biaxial
Annie: yes
Annie: idocrase uniaxial - look up for me
Frank: so maybe rays cross over...but why would a uniaxial stone change it's sign....idocrase is tetragonal / uniaxial
Frank: so only one ray moves
Annie: thats the one they call californian jade is it
Annie: hang on let me look it up
Frank: other name is vesuvianite
Frank: its a golden brown
Frank: transparent
Doos: I get a uniaxial - here
Frank: but schuman also classes it with the + / -
dbucfant has left the room.
Doos: does anyone have webster in reach?
Frank: sometimes greenish

Frank: no
Annie: yes hang on
Frank: yes and a green version from california
Annie: yes, so the transparent version is vesuvaiianite
Doos: a br of 0.005 is very hard to detect
Frank: yes I imagine it is
Annie: thats what i thought --- its isomorpjous replacement or iron, aluminium and magnesium of the calcuium
Annie: the replacements can overlap
Frank: is it the replacements that cause it then?
Annie: each other to negative if the values are lower
Annie: and vica versa
Annie: for high readings
Frank: would this also be the cause in the biaxial stones or is it just variation of the alpha and gamma rays
Annie: yes it can have the same effect in biaxials too unless the birefincegence is small not to be determined
Annie: especially peridots, can be neg or positive
Frank: ok thanks
Annie: due to fayalite or forsterite combination of replacements from mag to iron
Annie: when this happens i find that the sg is always going to be your next feature for test
Annie: the Ri's will be in the range or off the range due to this
Frank: read just classes peridot positive...but I'll take note of that for my pridot page
Doos: danburite is an isomorph of plagioclase
Doos: so, I'll go with Annie and shut up
Annie: lol
Frank: this isomorphism screws it all up then
Annie: the chemicals change places within the formula, no alteration exists to the structure
Frank: yes...like garnets
Annie: yes
Doos: or am I wrong now
Doos: damned I need my webster
Annie: lol
Annie: you naughty boy, you don't have webster
Doos: yes I have it
Doos: in storage
Frank: I got the read book last week and I've been thinking how many questions it answered that I needn't have asked
you if I'd had it sooner
Annie: don't feel like that
Annie: sometimes you could experiment on the practical sides if you had more specimens for study
Annie: just going with books is not quite the same
Annie: thats why its good to test 3,4,5 or more stones of the same to see if anything else
Frank: Yes this is coming... I'm planning to sign up with the gem-a and buy equipment in Feb....then start to collect things to look at
Annie: yes, also we recommend here that students go to gem shows and see the different varieties
Doos: I'm sure you'll pass with flying clours

Annie: a crystal may not always look the same as in our texts
Frank: my wife and I have a two year schedule worked out.....I think I love crystals better than cut stones
Frank: did you see that beauty mh did
Frank: preferred the before picture though
Doos: the inclusion bubble one?
Frank: yes
Annie: oh yes,
Annie: that was so cute
Annie: the crystal looked so beautiful too
Frank: yes
Doos: maybe someone should download all the pictures posted and index them
Annie: we never thought of that.. we had so many on the site before the crash
Doos: create our own inclusion atlas
Annie: yes and put everyones name beside it who posts
Frank: yes it was a shame to lose em all.nice idea though
Frank: and keep it away from the forum incase of another crash
Annie: mogok has some very nice photos on his site
Frank: yes between him and gemca they have an amazing collection
Annie: the only thing with gemca's, don't understand the french
Doos: shall I practise my logging skills agian?
Annie: lol
Doos: again*
Frank: yes
Annie: lol
Annie: you stuffed up last time
Doos: holdon, I might need you for backup
Doos: holy chalcedony
Doos: I can't log anymore
Annie: what
Frank: I just tried....cant seem to copy it???
Doos: what the heck!
Doos: I really cant log more than one screen
Annie: hang on
Doos: did you manage frank?
Frank: it just loses the select when right clicked...same for you?
Annie: click on the floppy disc on the bottom
Frank: did that
Doos: I had all selected, just gives me one screen
Annie: donot copy it from the screen
Annie: now highlight from top with your mouse
Annie: all the way down
Doos: we mean from the floppyscreen annie
Frank: did that
Doos: annie, you try it
Annie: i got it
Doos: really?
Doos: everything?
Annie: yes and after you select with mouse upon highlighting all
Annie: do
Annie: yes and after you select with mouse upon highlighting
Annie: do Ctrl C
Annie: open a notepad or word doc plain page
Frank: ah....not with the mouse?
Annie: and Ctrl V

Annie: will paste

Annie: or paste as usual

Doos: well I'm in linux so that doesnt work

Doos: but you have it annie? all of it?

Annie: ok, so i can send this note pad doc to yu

Annie: let me check again