

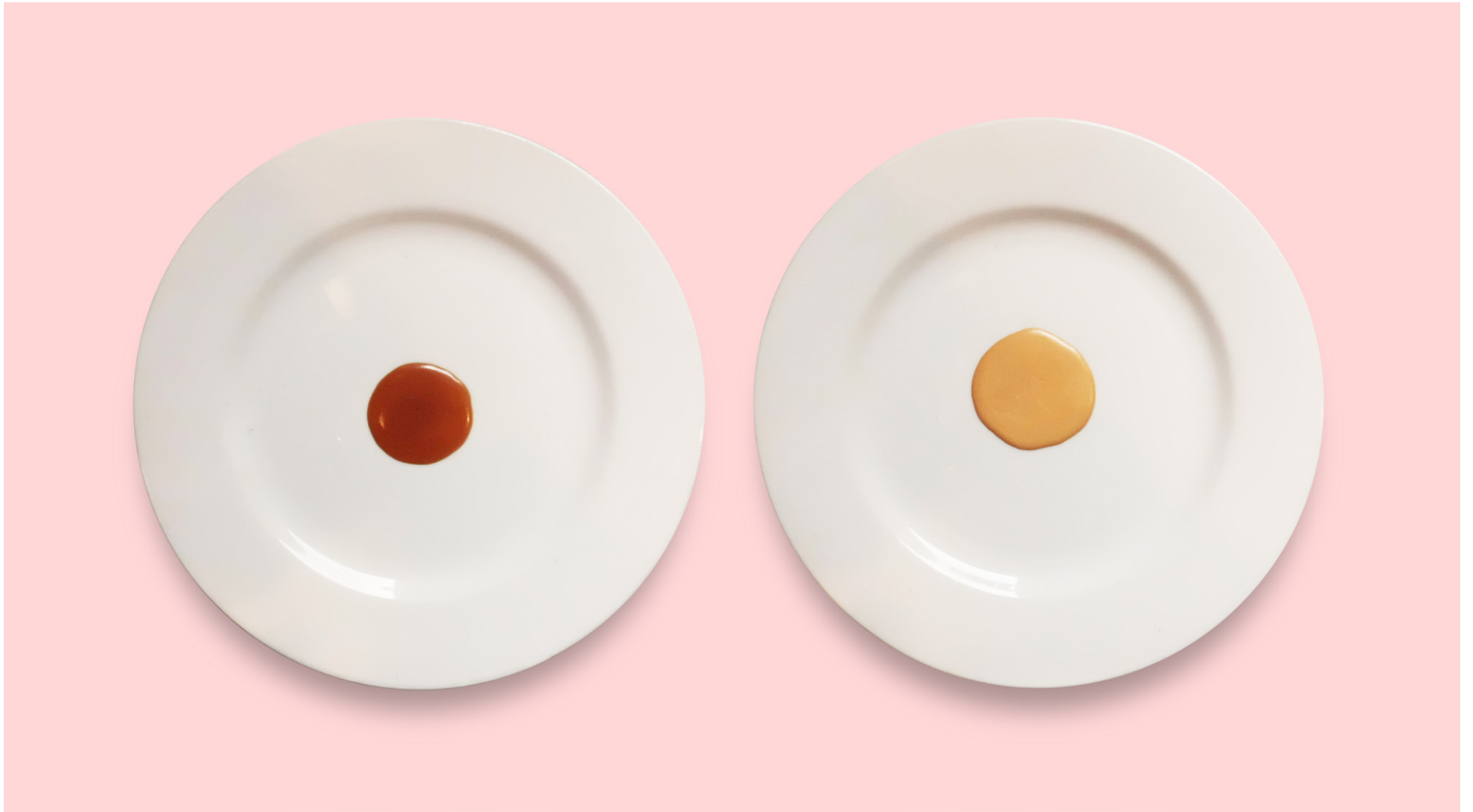
MISC. LOW ENERGY

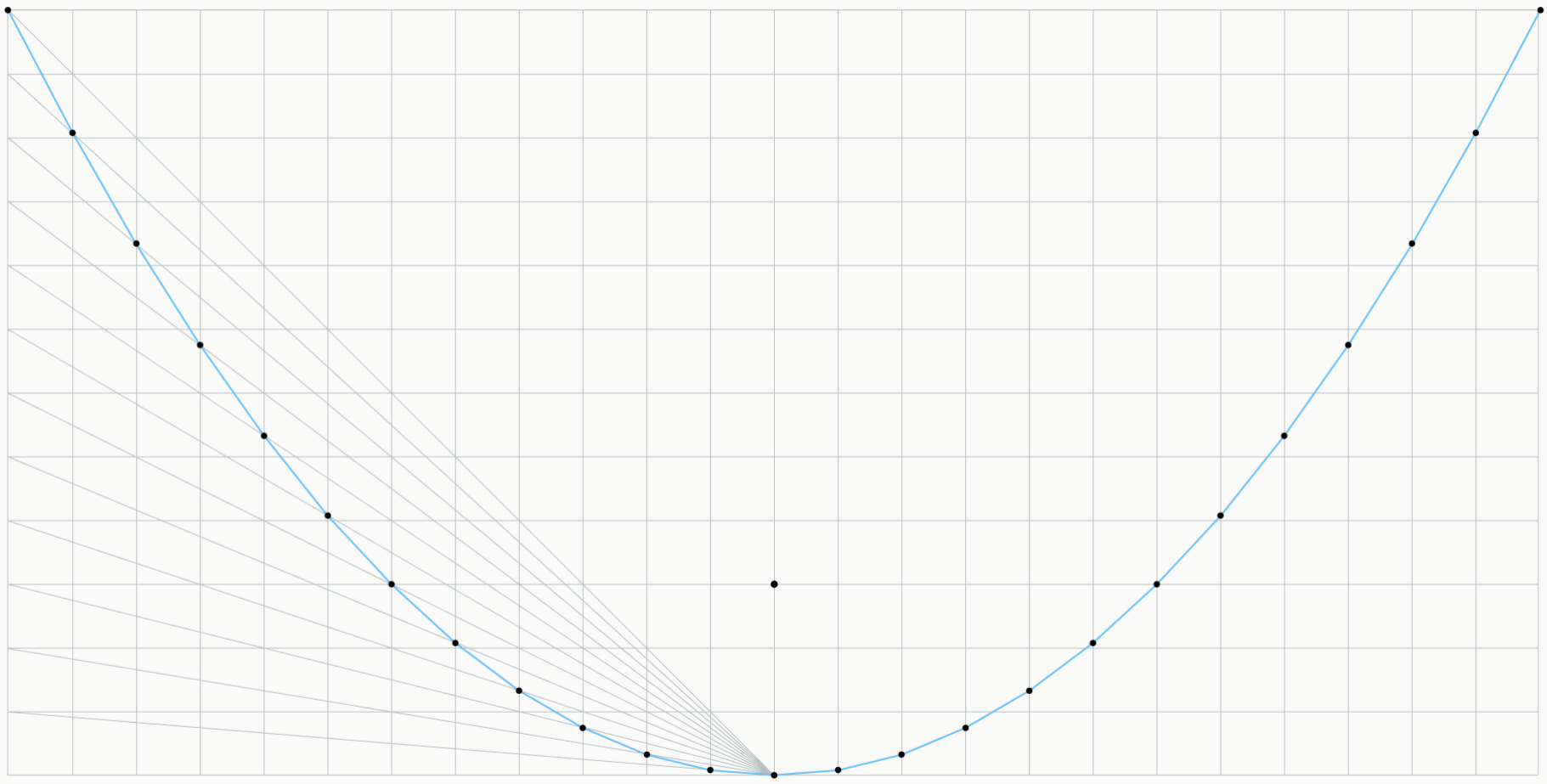
(replaces football, sixpacks, gasoline)

R S Wilson



light gravity parabola other







*tool*, 2011

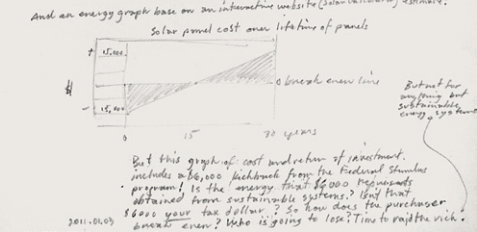


parabolic component for a functional model of a system, 2011

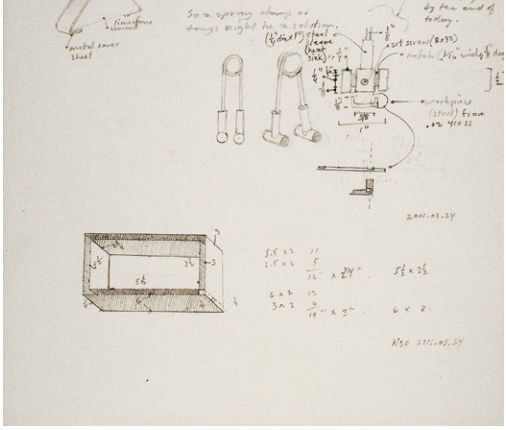
We were born into a liquid system, and the system hasn't changed. How many American homes have clothes dryers? Clothes dryers, gas or electric, in which the excess heat is pumped outside through a hose? Clothes should be hung outside in dry in the summer, and if we use the heat from an appliance dryer in the winter to also heat your dwelling there's no less reason that we were partly paid more clothes than we can be hung out to dry inside.

I'm now read about a third to half of "deforestation the earth" (M. Williams), which I produced a couple of days ago. That's pretty much what it is about deforestation that's not even the cause of civilization. Williams doesn't recognize the violence employed by the civilized and accepts the storybook picture that civilization has been good for most of us, when in fact it has not. He does not address the perpetual brutality that the cultured have accepted as necessary for their entertainment because it is looking at a glorified one-dimension written by artists and from his concept of perfection in a world powered by fossil fuels where even today's equivalents of history's slaves, hunses or peasants can sit on the toilet. It's all too easy from a professor's chair. (more on this in the coming days) 2011.01.02

A physical philosophy question:  
How you gonna die? How a you gonna die? or check and see? That's the question. Both right in your face? How you gonna die? or check and see? That's the question. Both right in your face? How you gonna die? or check and see? That's the question. Both right in your face? How you gonna die? or check and see? That's the question. Both right in your face?



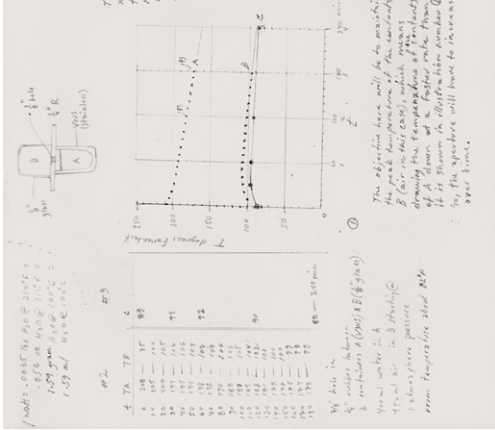
Yesterday and Monday I began trying to shape parabolic struts for the frame of the parabola. It's not easy. The little limestone cement form works pretty well though I may need a counter-form to shape it just right (as a final shaping step). I thought I'd bring the workshop to 1500 or 1600 would consist of easy to hand and that it might have been as simple as letting the workshop sag around the cement form. Not so. Pressure needs to be added continuously from top to bottom and out to the edges while turning down.



Have the design for the parabola's final end. The parabola's design has a pipe into which parabolic struts are placed. The pipe is to be made in a lathe with the final end. (Looking to the right or after measured energy through structure).

2011.01.27

The reflection here will be to maximize the amount of light that enters the space. The temperature of the space will be raised to the point where the space is comfortable. The space will be raised to the point where the space is comfortable. The space will be raised to the point where the space is comfortable.



And back to the Williams book:  
Williams does not seem to recognize the transport limit of energy coming into a city. There is a number of transportation costs of wood for houses for the midwest during the 19th century. Williams does not seem to recognize the energy transport limit (which is not due to branching by civilizations without domesticated animals), or coming close enough to it that the transportation of wood failures due to bad weather called the transportation authority enough to break the whole structure.

Williams mentions computer ideas for the edges of Central American civilizations but does not recognize that it might be due to branching the energy transport limit (which is not due to branching by civilizations without domesticated animals), or coming close enough to it that the transportation of wood failures due to bad weather called the transportation authority enough to break the whole structure.

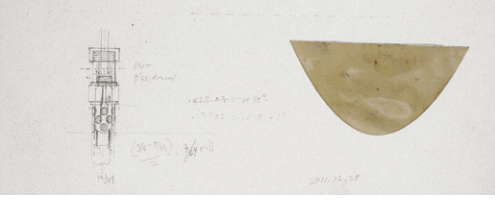
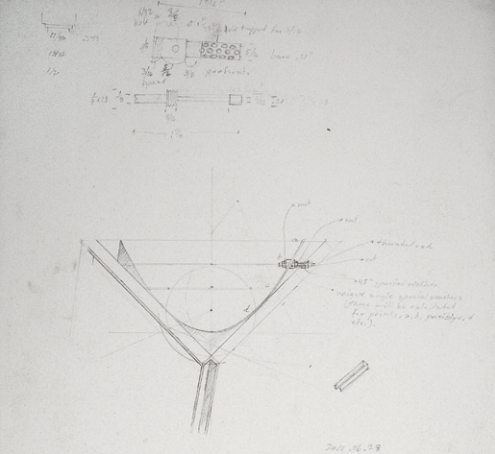
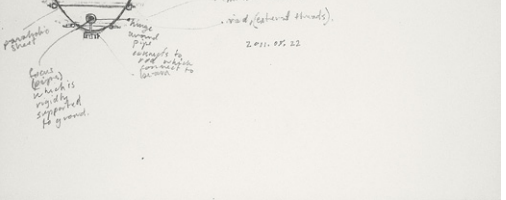
There is a perfect example of the energy transport limit being breached today in the news. Many cities in India have recently expanded their borders, building large high rise apartment complexes, which increases demand from within the city. Williams does not recognize what was once known as the energy transport limit. Williams does not recognize that it might be due to branching the energy transport limit (which is not due to branching by civilizations without domesticated animals), or coming close enough to it that the transportation of wood failures due to bad weather called the transportation authority enough to break the whole structure.

2011.01.05

Faster, when building some more parabolic-shaped struts to determine the parallel 1000 ft high stainless steel rods, so very strong. I found a way with a better way to make the whole structure. The strut of stainless steel can be used around nearby. It seems rigid enough to simply drill holes.

Family a very simple means of increasing a parabolic reflector.

2011.01.27



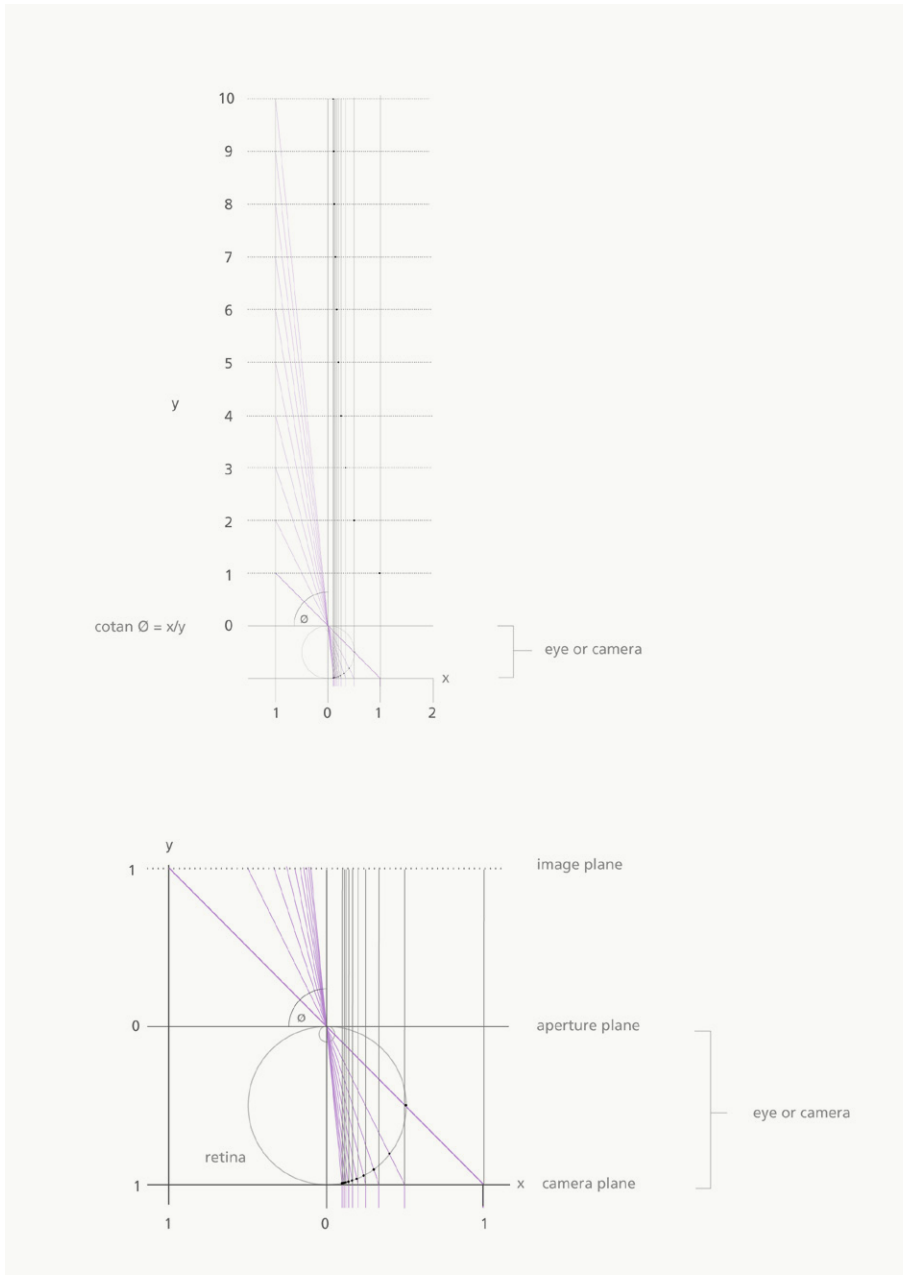
Time	1	2	3	4	5	6	7	8	9	10
water	120	102	85	70	55	40	25	10	0	0
granite	165	150	135	120	105	90	75	60	45	30
concrete	165	150	135	120	105	90	75	60	45	30
brick	165	150	135	120	105	90	75	60	45	30
stone	165	150	135	120	105	90	75	60	45	30
steel	165	150	135	120	105	90	75	60	45	30

Temperature of water  
Surrounding various solids  
Solid object  
Thermal diffusion  
Fast @ 2

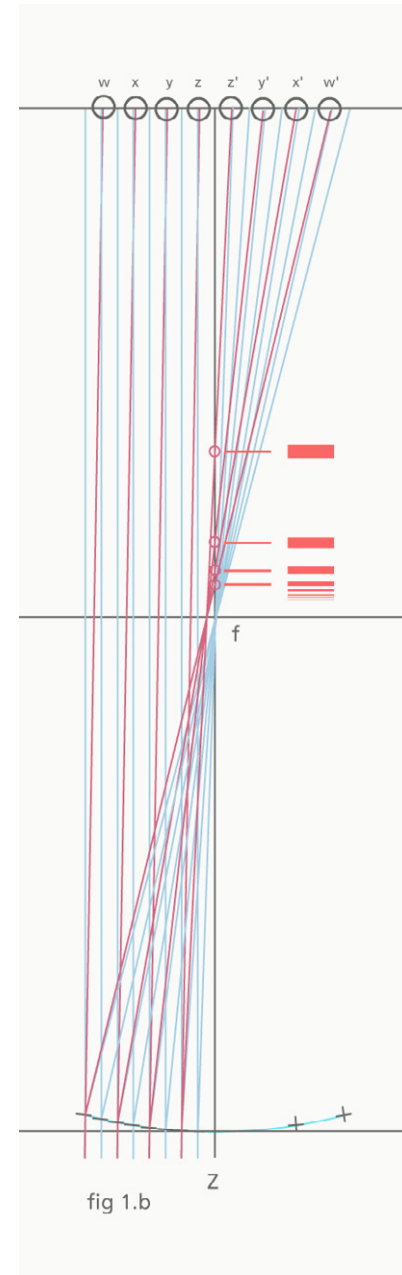
min	15	20	25	30	40	50	60	70	80	90	100	110	120
water	120	115	110	105	100	95	90	85	80	75	70	65	60
granite	120	114	111	107.5	104.5	101.5	98.5	95.5	92.5	89.5	86.5	83.5	80.5
concrete	120	114	111	107.5	104.5	101.5	98.5	95.5	92.5	89.5	86.5	83.5	80.5
brick	120	114	111	107.5	104.5	101.5	98.5	95.5	92.5	89.5	86.5	83.5	80.5
stone	120	114	111	107.5	104.5	101.5	98.5	95.5	92.5	89.5	86.5	83.5	80.5
steel	120	114	111	107.5	104.5	101.5	98.5	95.5	92.5	89.5	86.5	83.5	80.5

No appreciable difference between water and liquid. The liquid temperatures much faster and more equal to volume and entropy.

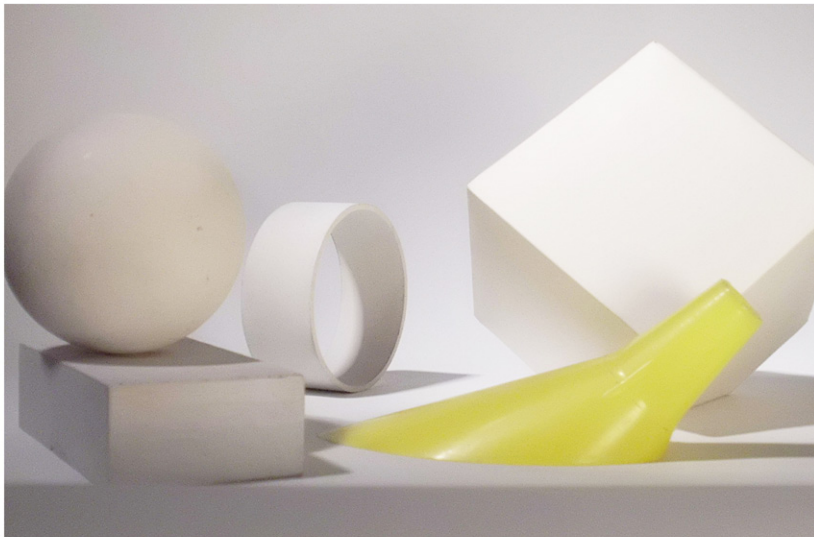
2011.01.27



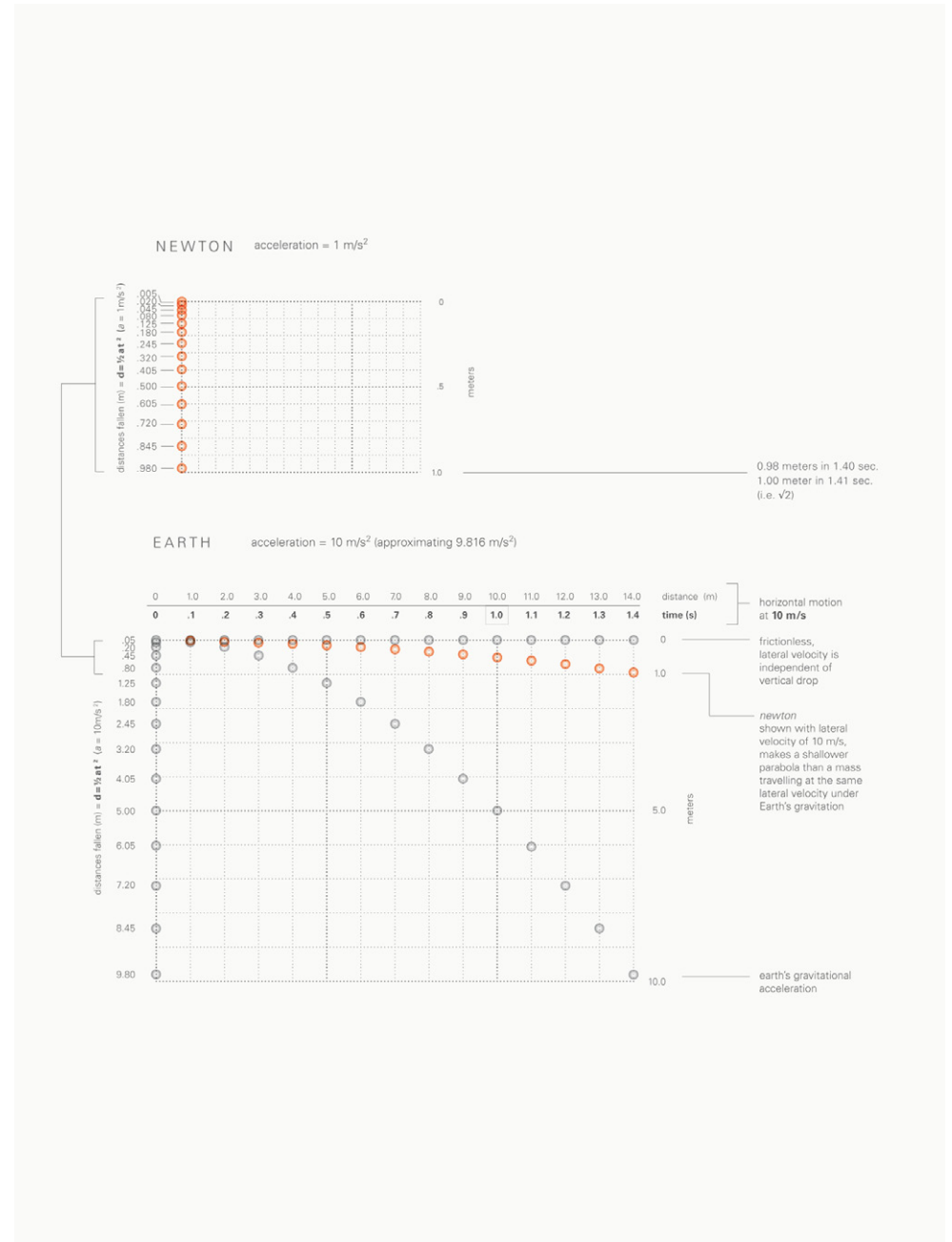
perspective study, 2007 and 2012



from parabolic study 7, 2005



teaching tools, 2012-13



from gravity 15, part of Reptile 2013-14

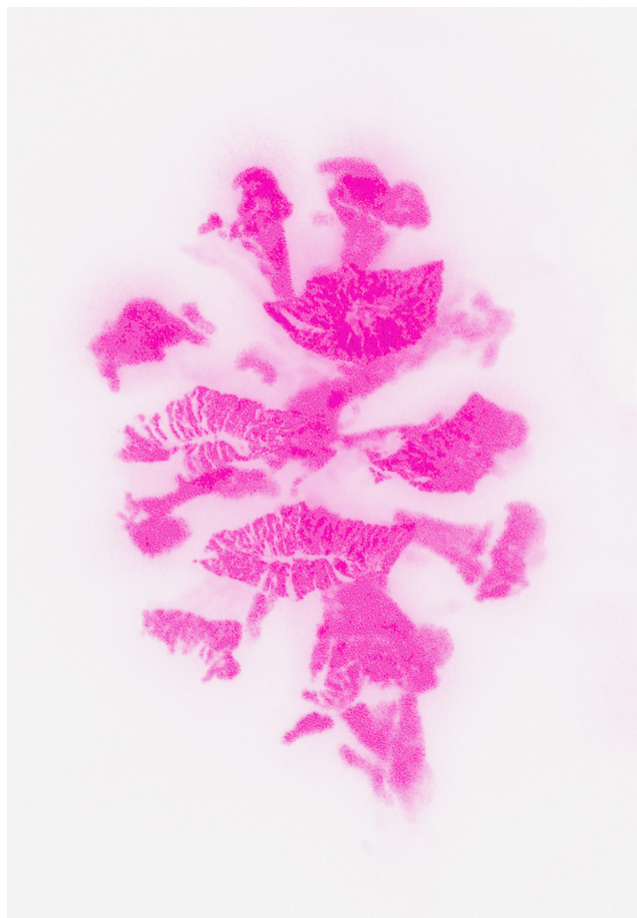




*other things to do with gravity (balances), 2003—2015*



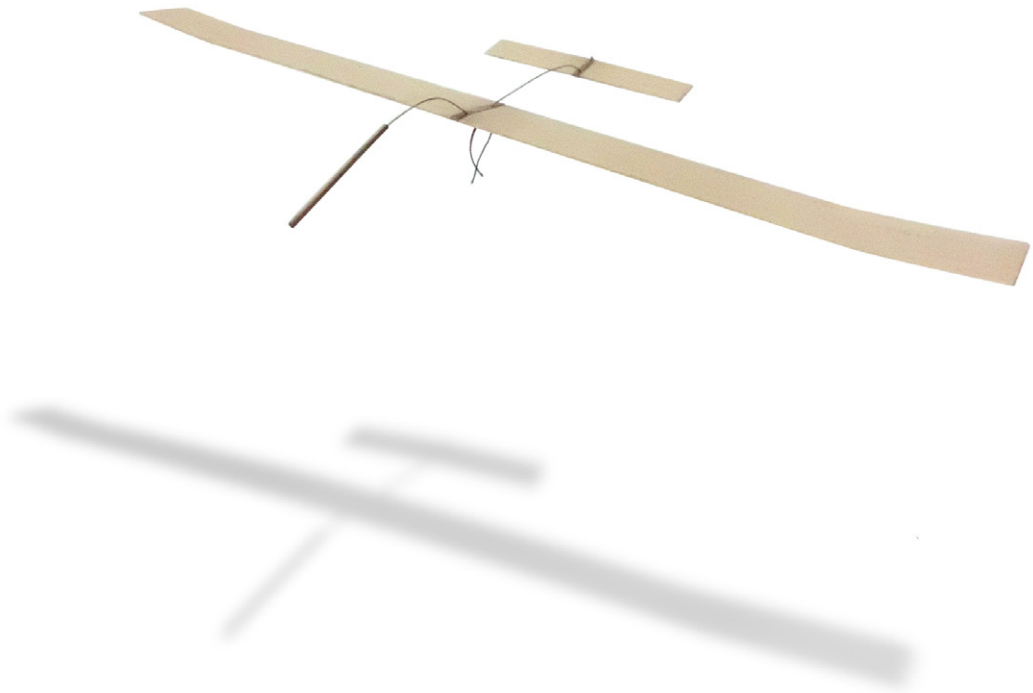
*perforated sheet, 2004*



*widn yur lanes thru th redwd forst.  
make way fr th silvr se-quoi-yas. ths lnd ws made fr toyotas.  
photograph, 2008*



*modern waste, 2007*



*pterodactyl*, 2012



from *flesh*, 2002, 2015

## INDUSTRIAL JESUS

you sold your prick for a speed machine  
to burn some rubber for a backseat queen  
in that ruffled shirt, white as a flake  
you were the plastic groom on your wedding cake  
then they raped your wife in the minutes between  
the edges of night with mr. clean  
and a chainlink fence 'round your suburb house  
kept the baby in and your neighbors out

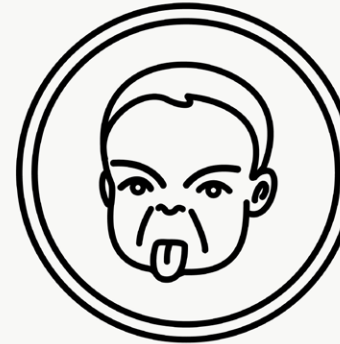
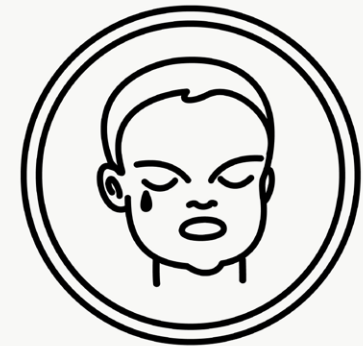
imprisoned by traffic in an urban scene  
rushing to serve the industrial kings  
an electric appliance for each of your chores  
a gasoline-powered rider mower  
automatic living, buttoned-up fat  
popping out babies like caged-in rats  
and to pay for it all as a uniformed guard  
you surfed away on a gold charge card

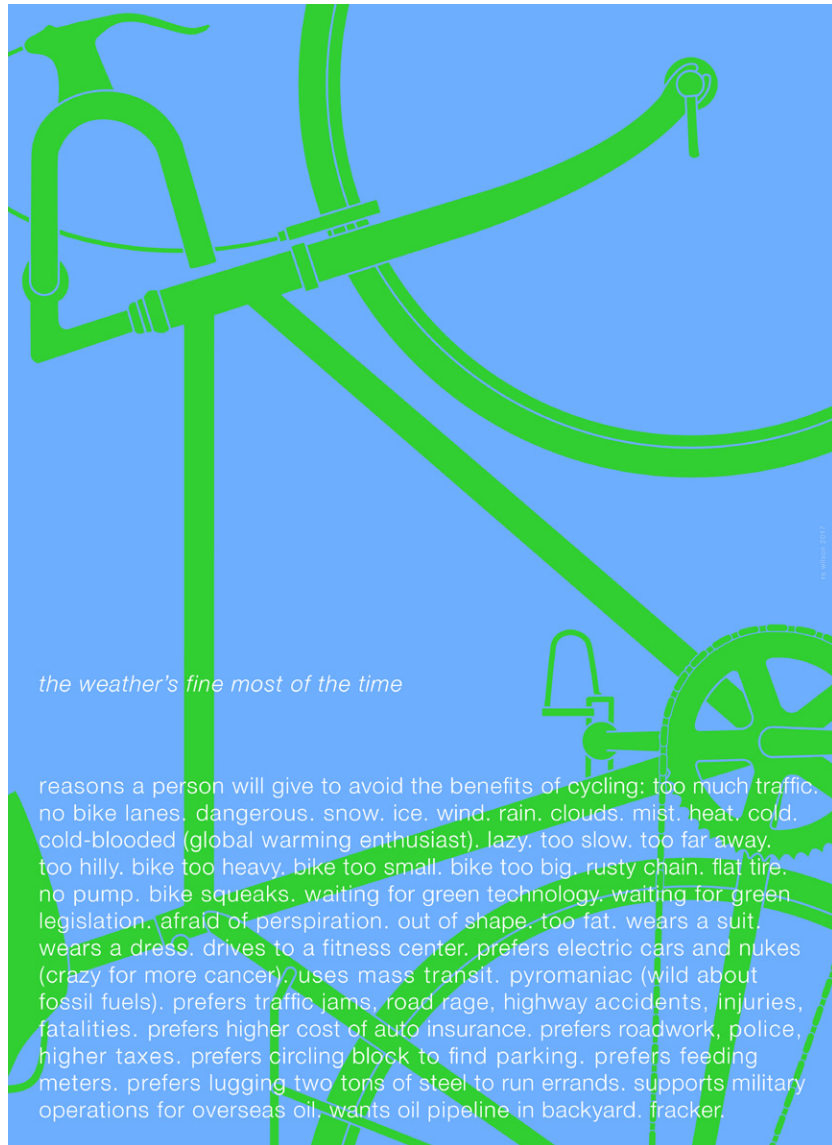
yeh you fed your kids to tony the tiger  
but lickin' his chops was the advertiser  
who bought the press for your freedom to choose  
which bait to bite once your credit's approved  
now your parents pension for which you slave  
gonna leave you nothin' but their surgeon's blade  
and a dozen jars of prescription pills  
once you've paid off all their poor health bills

spinning your wheels to get to the top  
goin' in circles, climbing out of hock  
when they rolled out detroit on the red white and blue  
shoulda known back then that you were through  
now a pipeline runs through your backyard fool  
the corporate domain took your swimming pool  
and they'll level appalacia for your coal-fired rights  
leave nothin for tomorrow but a cold winter night

when those green-techs lose as much as they get  
and you're runnin' on empty, what you wanna bet  
when the coast of your island has shrunk by two  
what god will the heathens be praying to?  
not the reason you dropped on the marble steps  
as you entered the temple to buy some help  
from a judge reading prayers in a dog-eared script  
empty as the future on a fortune cookie strip

(you fell for the american dream)





*the weather's fine most of the time*

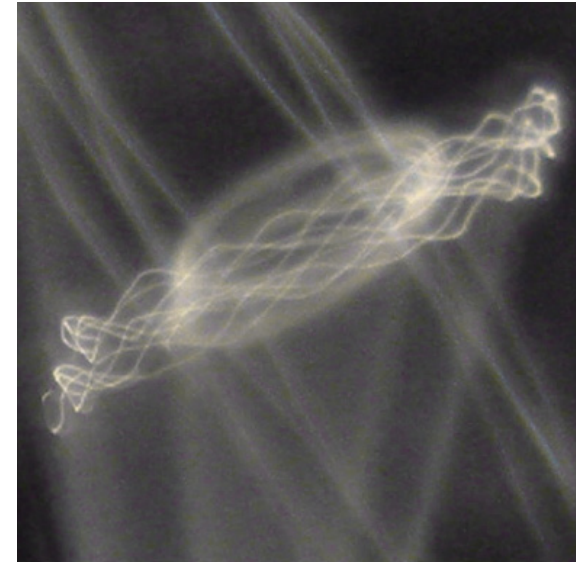
reasons a person will give to avoid the benefits of cycling: too much traffic, no bike lanes, dangerous, snow, ice, wind, rain, clouds, mist, heat, cold, cold-blooded (global warming enthusiast), lazy, too slow, too far away, too hilly, bike too heavy, bike too small, bike too big, rusty chain, flat tire, no pump, bike squeaks, waiting for green technology, waiting for green legislation, afraid of perspiration, out of shape, too fat, wears a suit, wears a dress, drives to a fitness center, prefers electric cars and nukes (crazy for more cancer), uses mass transit, pyromaniac (wild about fossil fuels), prefers traffic jams, road rage, highway accidents, injuries, fatalities, prefers higher cost of auto insurance, prefers roadwork, police, higher taxes, prefers circling block to find parking, prefers feeding meters, prefers lugging two tons of steel to run errands, supports military operations for overseas oil, wants oil pipeline in backyard, tracker.

*most cities are flat, handbill/poster, 2017*

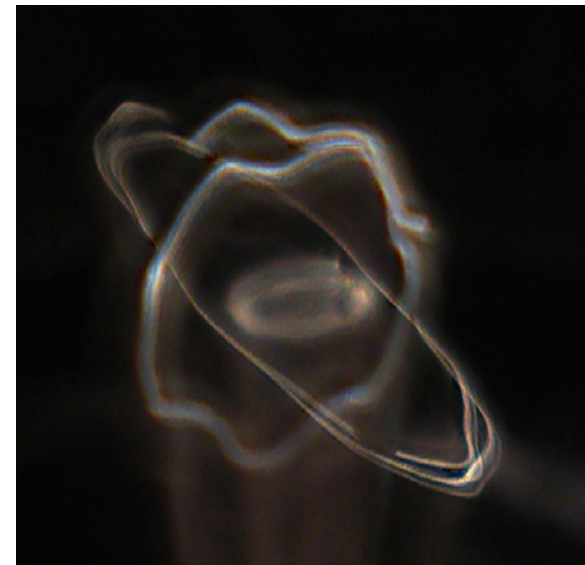


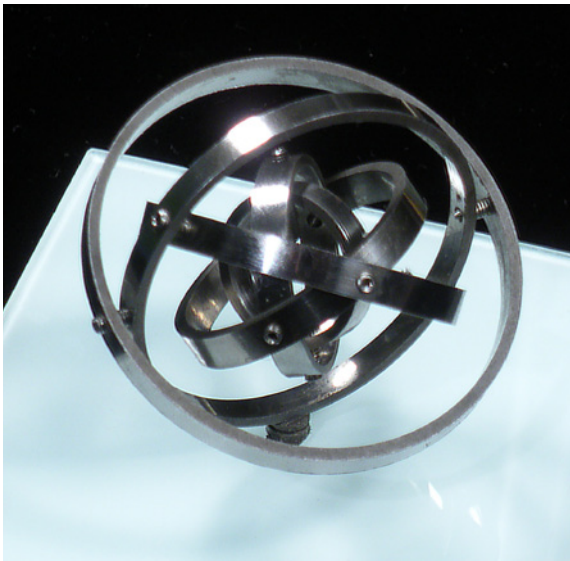
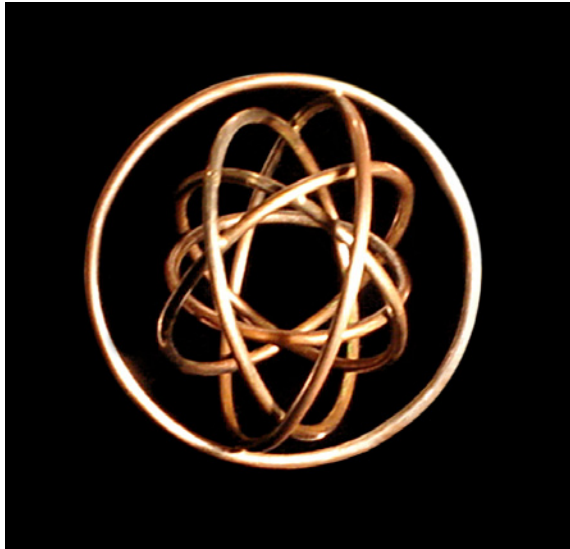
*pawn, 2016*

2004—2017



atoms spectra optics primes

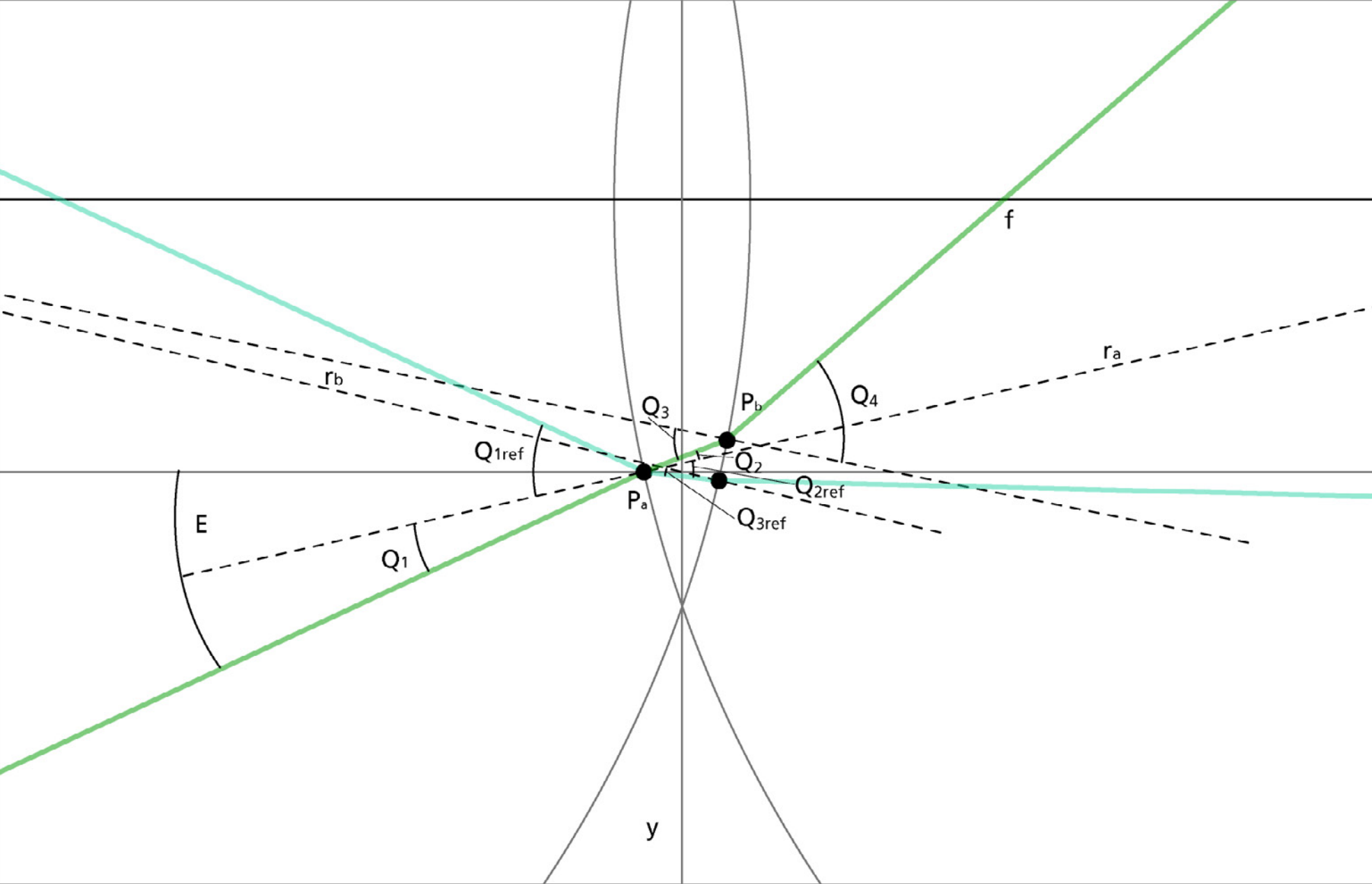




*trunci 2, 2004 and trunci 4, 2005*

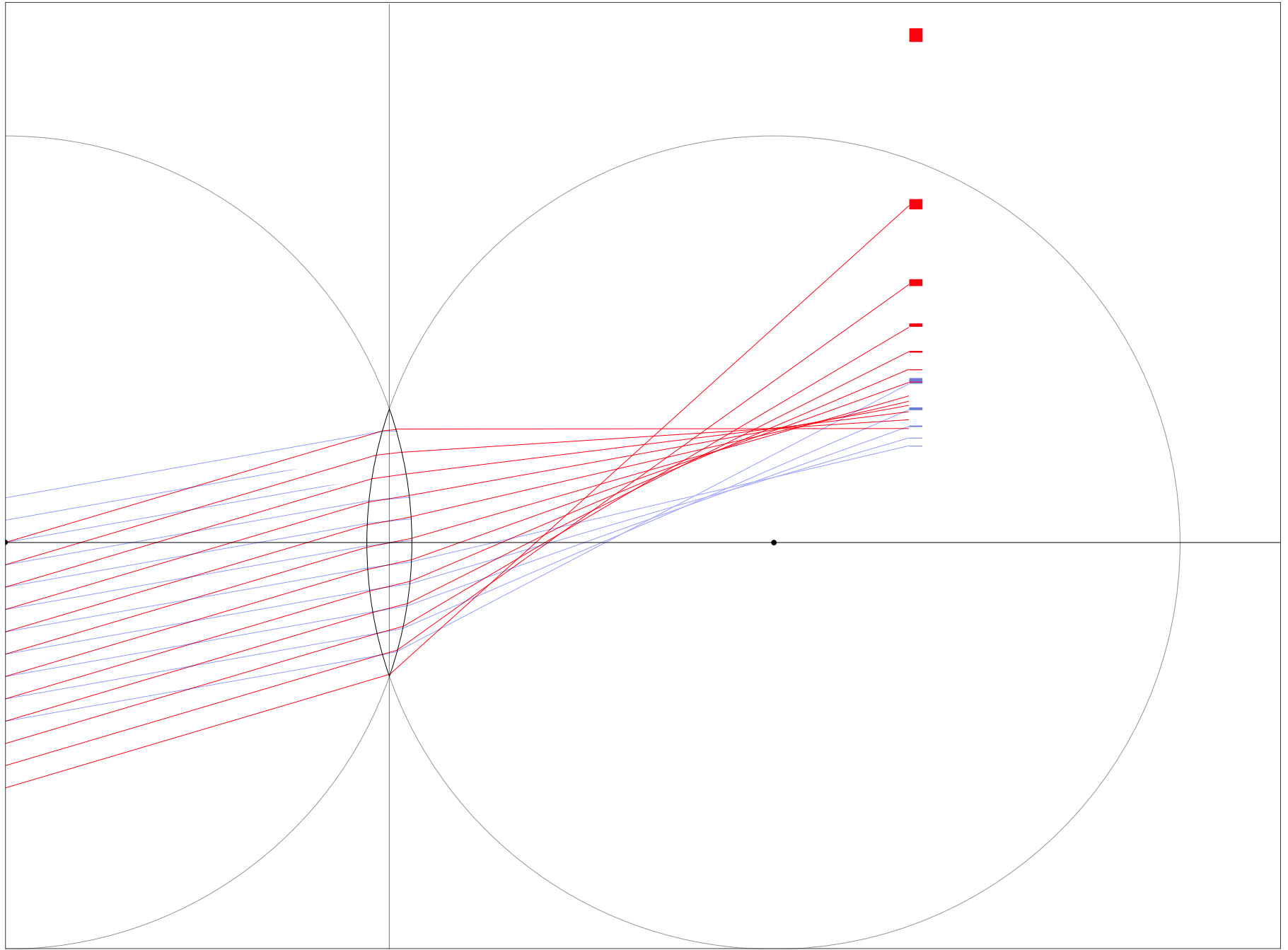


*trunci 5, open and collapsed, 2005, and trunci 4, 2005*

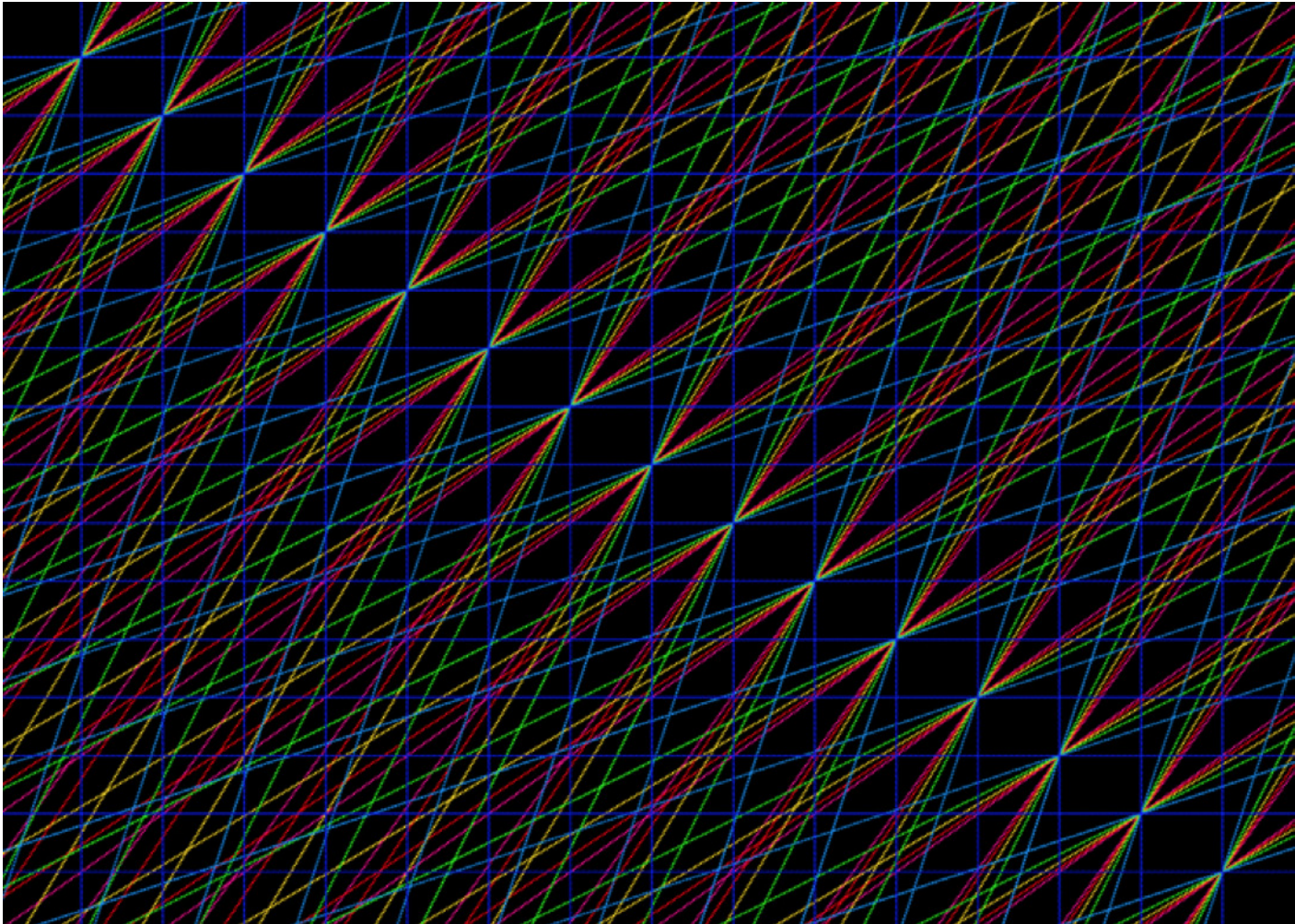


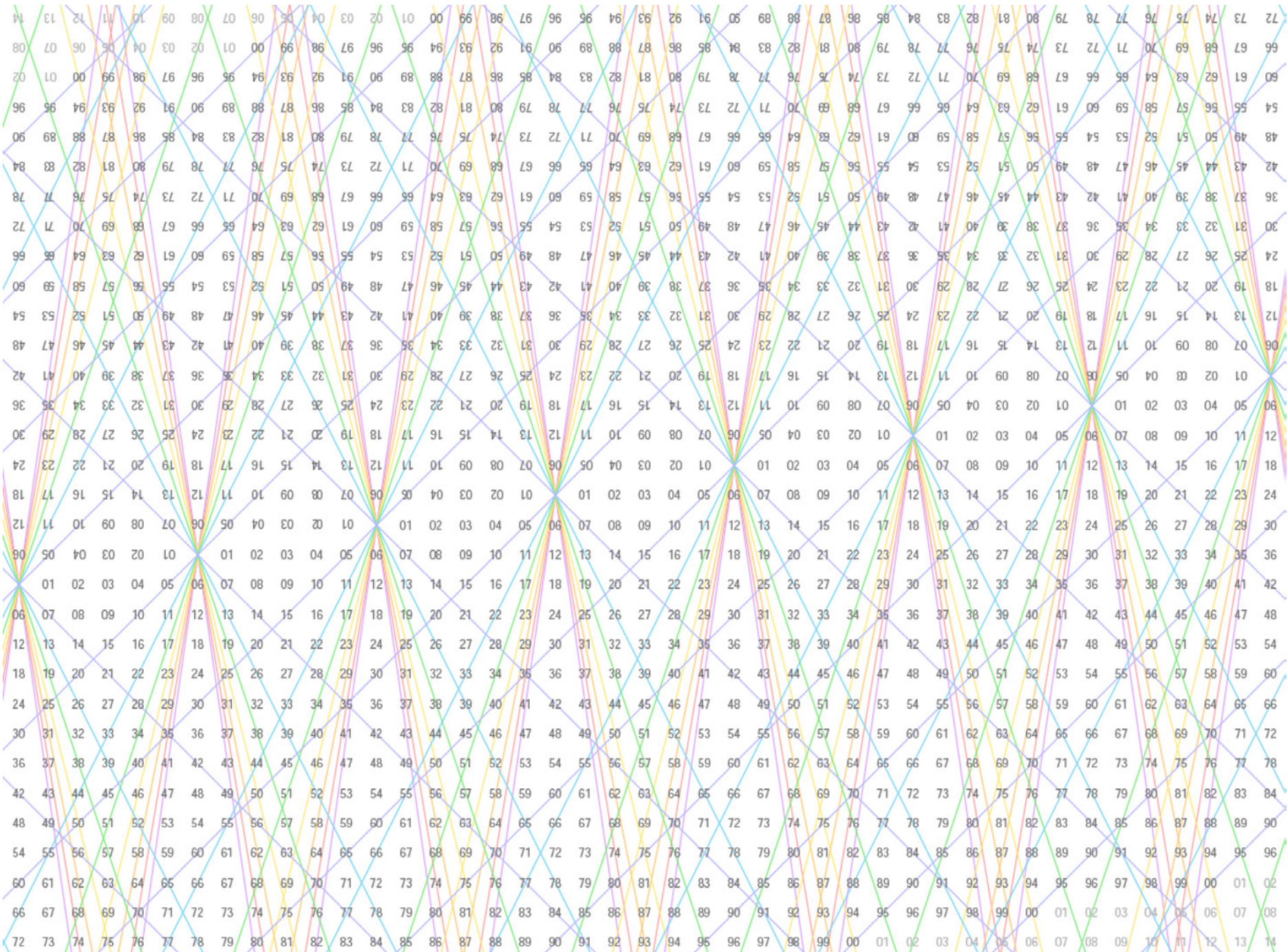
from lens 9, 2005

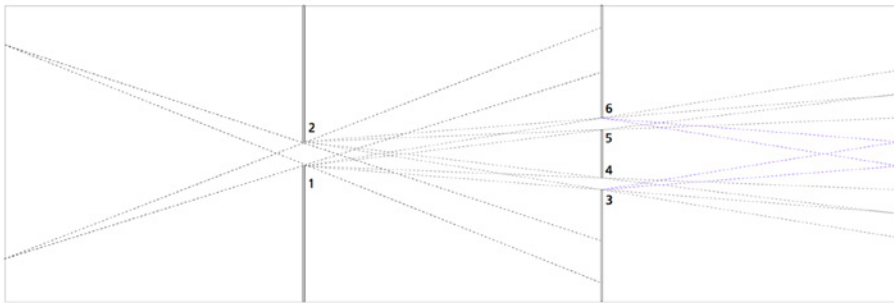
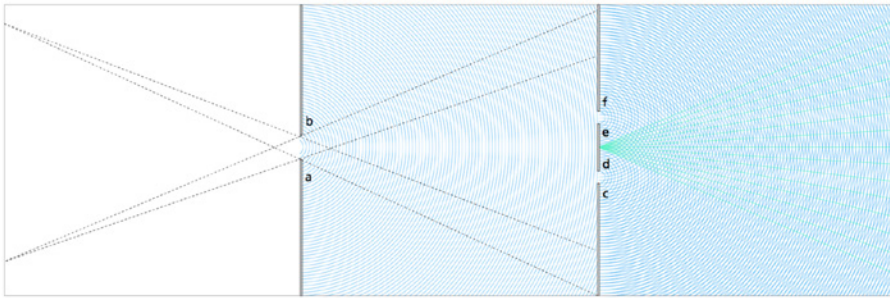




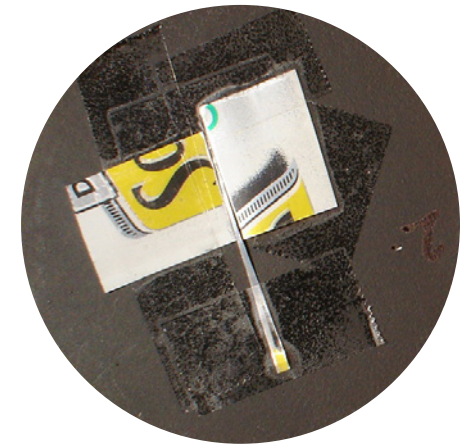
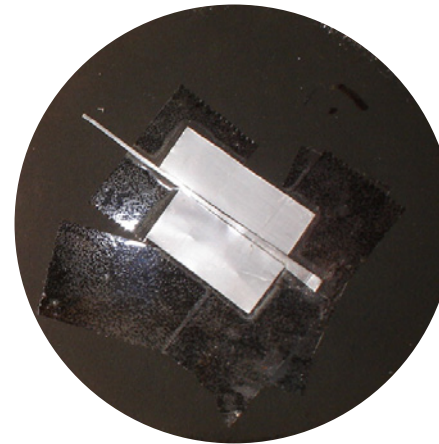
from *lens7b* (cor. 16b), 2005, subtitle: *hydrogen*



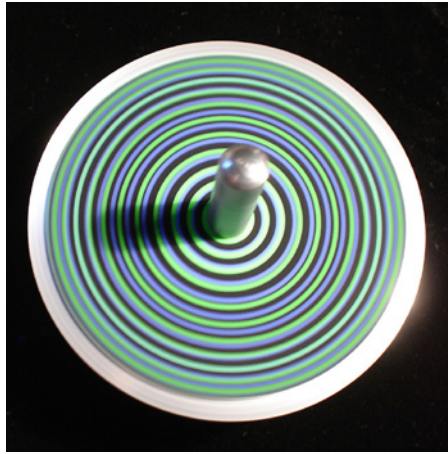
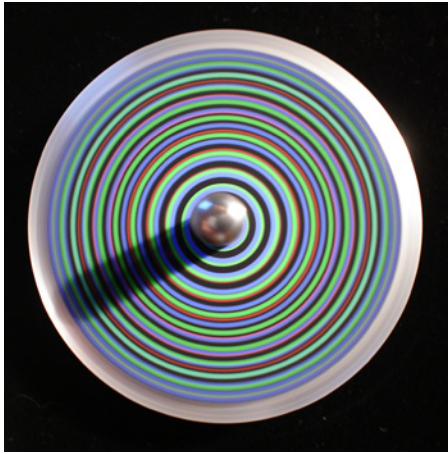




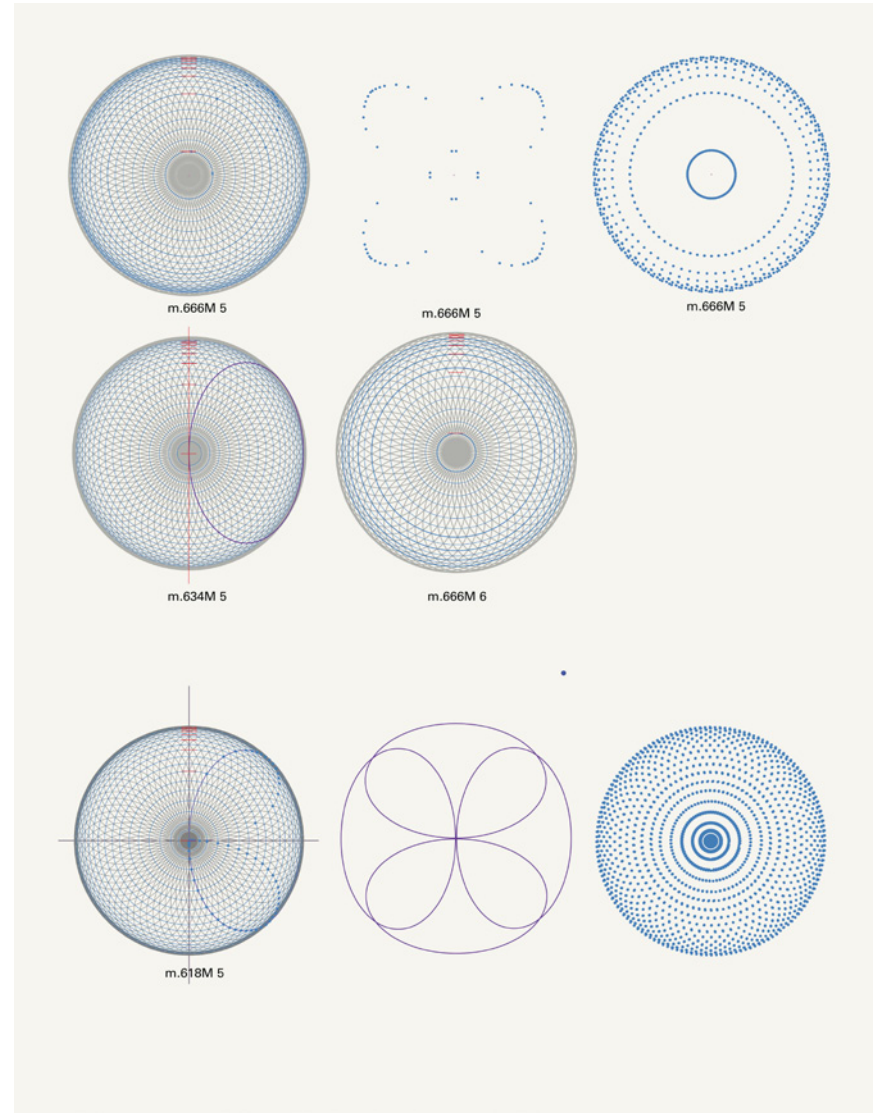
from *apertures 21*, digital drawing, 2006



from a double slit experiment, 2006



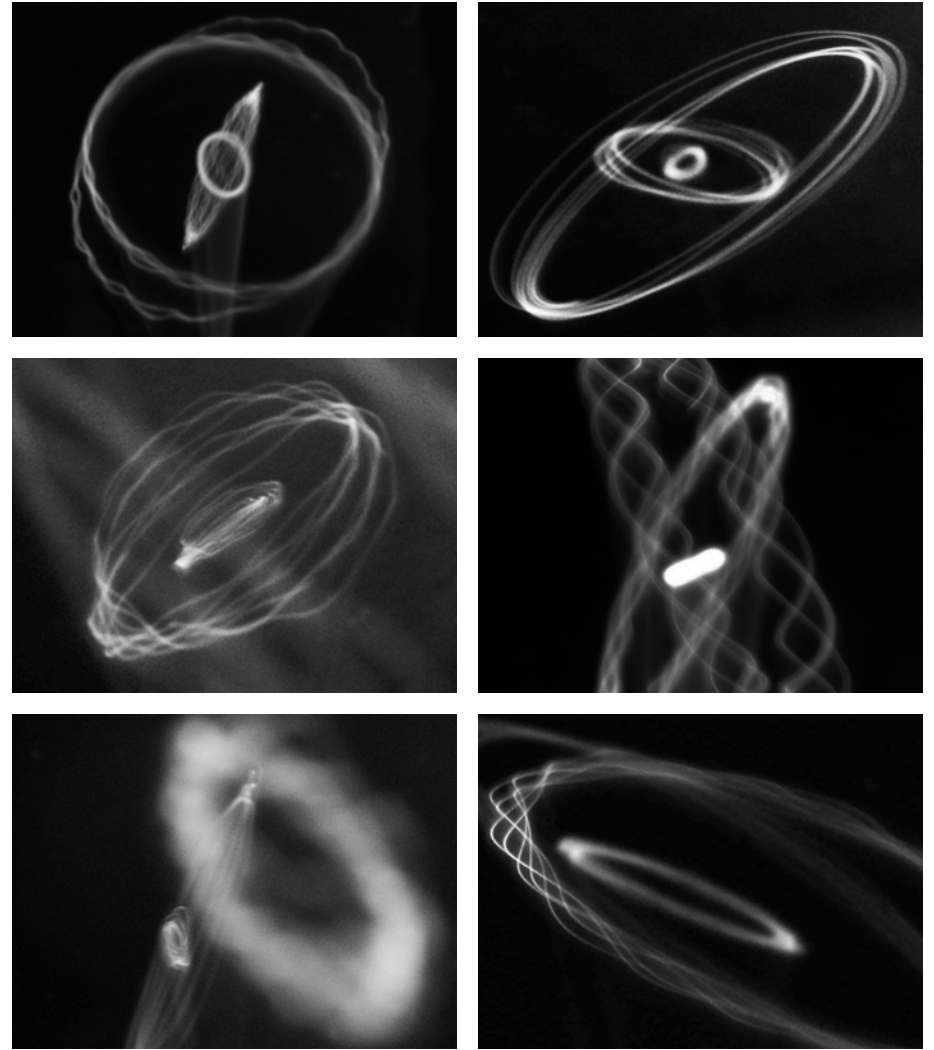
mercury, 2006



study for mercury, 2006



*vibrator, 2011*

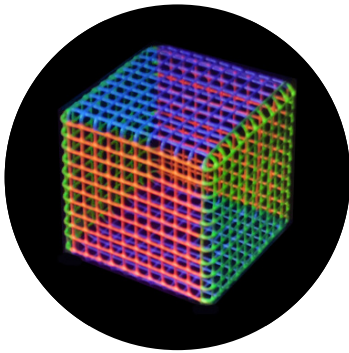


*electrons, 2011 and 2017, photographs*

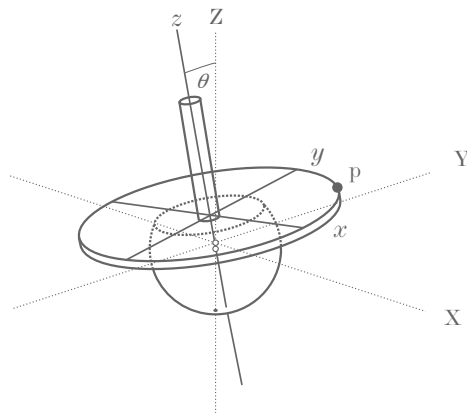
2003–2006

study in red green and blue

swf animation no longer operates



static (special)



kinetic (general)



kinematic (quantum)

## STUDY IN RGB

It is well known that a painter cannot mix red and green pigments to achieve a luminous yellow. Nor will he obtain white by mixing blue and yellow. Stirring red and green pigments together yields a dull rust color, not yellow. And blue and yellow pigments make green, not white.

A digital artist gets different results when mixing the same colors on a computer screen. She easily makes yellow from red and green, and white from blue and yellow.

The subtractive color mixing system, used by artists for reflective matter, can effectively be reduced to primaries of yellow, cyan, and magenta, which together make black. The primaries of the subtractive system are the secondary colors of the additive system.

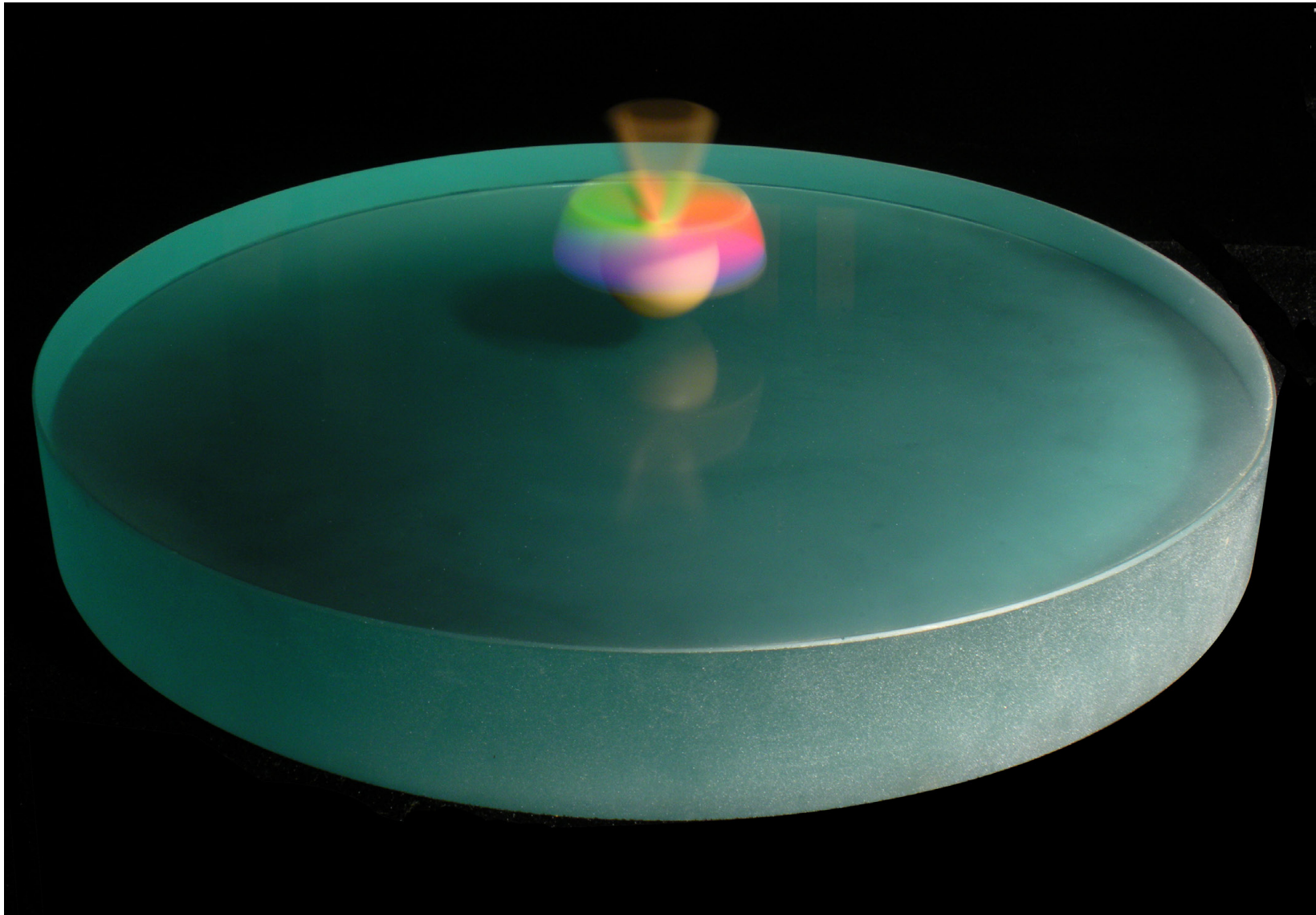
The additive color system, used in light-emission products like television and computer screens, employs colored light of red, green, and blue, which when mixed together in equal proportions (on the retina), yield white. The primaries of the additive system are the secondary colors of the subtractive system.

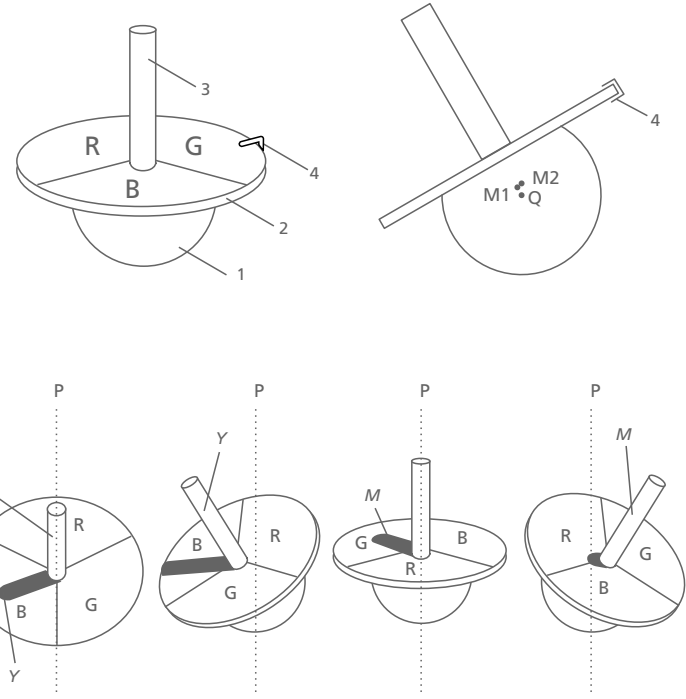
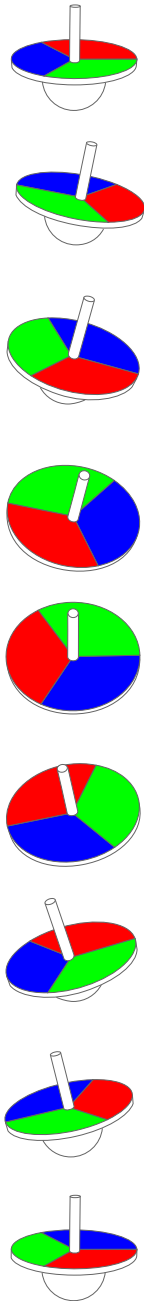
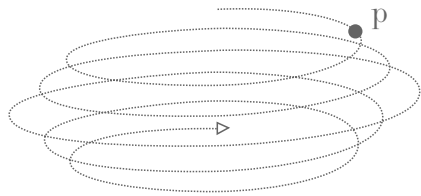
Notice the additive primaries are warm and the subtractive primaries are cool.

If a swatch of color appears most intense and brighter on a black ground, then optical color mixtures of additive primaries might also appear most intense and brighter on a black ground.

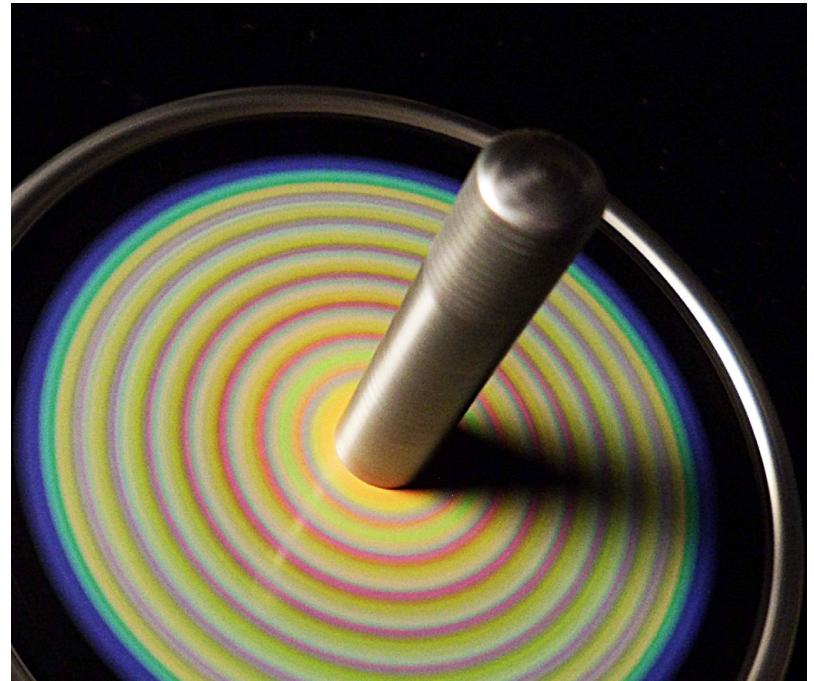
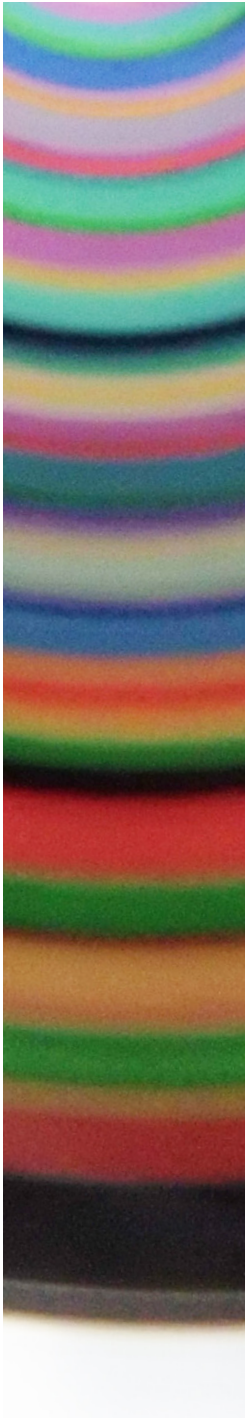
In these studies the apparent luminance of mixtures of additive primary pigments (red, green, blue) is enhanced by the introduction of intervals of zero or low light. In one type of structure intervals of black lie between colored regions as opaque pigments on static openwork structures. In a second type the intervals of darkness are integrated between rapid successions of colored regions. In a third type the intervals of darkness are also integrated between rapid successions of colored regions, but the domains of the red, green and blue primaries are configured as openwork structures. Under incidental white light the works exhibit additive primaries by diffuse reflection to stimulate sensations of secondary colors—magenta, cyan, and yellow—and tertiary colors.



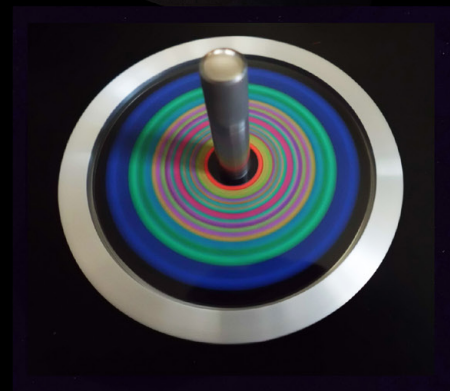
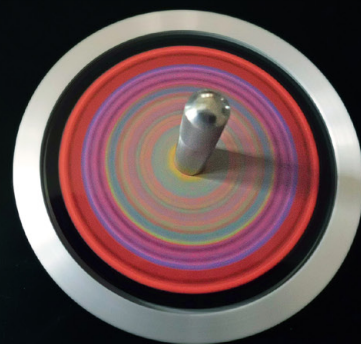
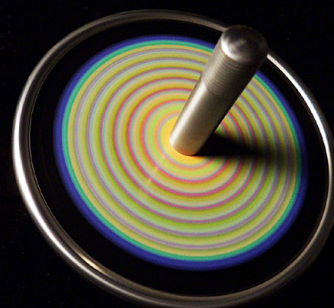
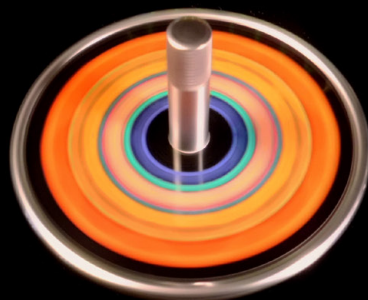




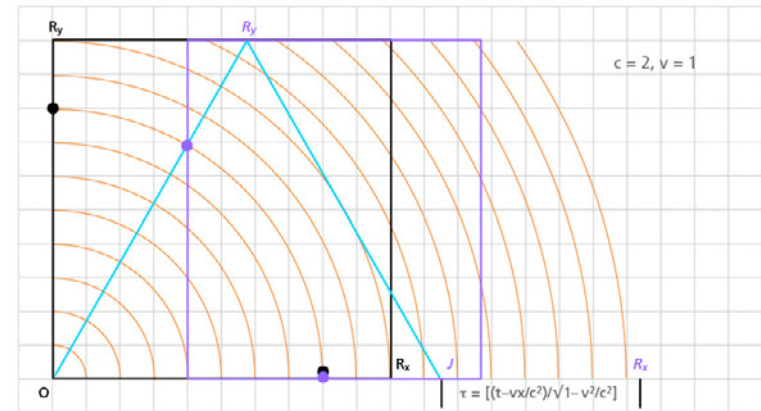




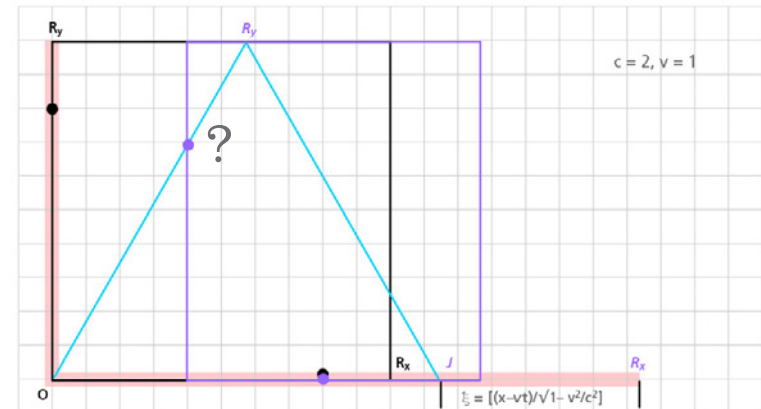
spinning



1999—2000



The Spherical Light in Einstein's *Electrodynamics*



swf animation no longer operates

### The spherical light in Einstein's *Electrodynamics*

In his special relativity paper (*Electrodynamics*), Einstein proposed that a spherical light be used in determining the transformation equations for two systems in relative motion. But a spherical light seems an insufficient means by which to justify the constancy of the speed of light with the principle of relativity (see §3 of the paper). A simple experiment reveals that a narrow laser beam propagated laterally in a moving system will arrive at its destination by passing through a region permitted by a spherical light, but prohibited by the focus of the laser.

These illustrations compare an event observed in two systems, one in motion,  $k$ , indicated in purple, and the other stationary,  $K$ , indicated in black. For each of the two systems,  $k$  and  $K$ , two paths of light are represented by dots which begin at a single origin,  $O$ , and reflect,  $R$ , at the edges of their respective systems. The simultaneous reunion of the two reflected paths in the moving system  $k$  occurs at point  $J$  and is achieved by shortening the  $x$ -axis length of system  $k$  (the Lorentz-Fitzgerald contraction) by the factor  $\sqrt{1-v^2/c^2}$ . This factor is also the sine of the angle at  $O$  formed by  $\angle R_y O J$ .

In the top illustration (a) I have included a series of concentric arcs representing the radial dispersion of light propagating through both systems. The speed of light,  $c$ , is at twice the velocity,  $v$ , of the moving system  $k$ . The path  $OR_y$  inclines at an angle for observers in  $K$ , but proceeds perpendicularly for observers in system  $k$ . For observers in  $K$  the light along path  $OR_y$  also travels away from the origin at the speed of light, whereas in  $k$  it appears to move parallel to the  $y$ -axis and at a rate slower than the speed of light by the factor of  $\sqrt{1-v^2/c^2}$ . To account for this difference between an otherwise constant speed of light, all times measured in  $K$  are equated in  $k$  with the time transformation  $\tau = [(t-vx/c^2)/\sqrt{1-v^2/c^2}]$  and observers in moving systems still measure the velocity of light as  $c$  and not  $c\sqrt{1-v^2/c^2}$ .

In the second illustration (b), the radial framework is eliminated and the light is confined to narrow pink bands (laser beams) along the  $x$  and  $y$  axes. It is clear that such beams of light emitted from the origin of the stationary system cannot reach the point  $R_y$  (nor point  $J$ ). A narrow beam of light projected laterally to the moving system  $k$  which is observable at  $R_y$  must have its source in the moving system. How then does it arrive at  $R_y$ ? How does it predict point  $R_y$ ? (If the velocity of light is not affected by the motion of its source, at least its trajectory is.)

—sw 7.26.2000 (grammatical and clarification edits done 2017.03.09)

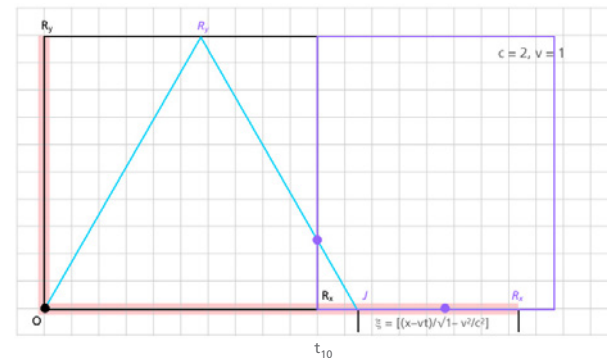
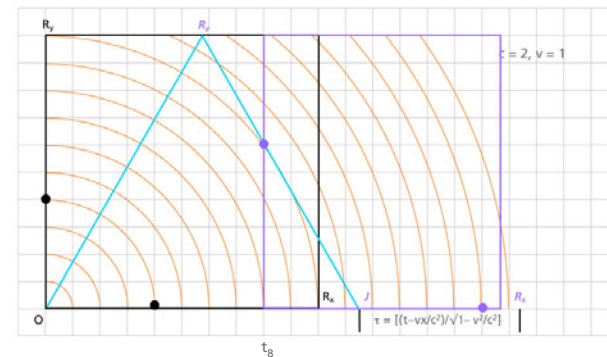
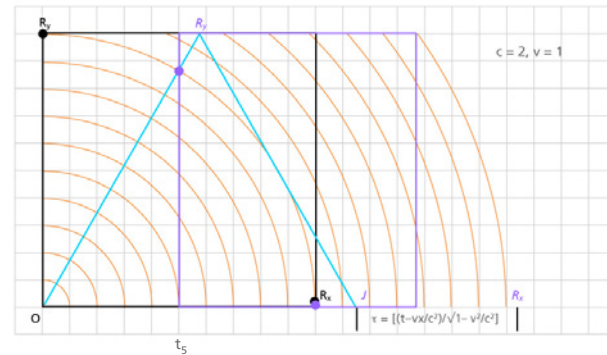
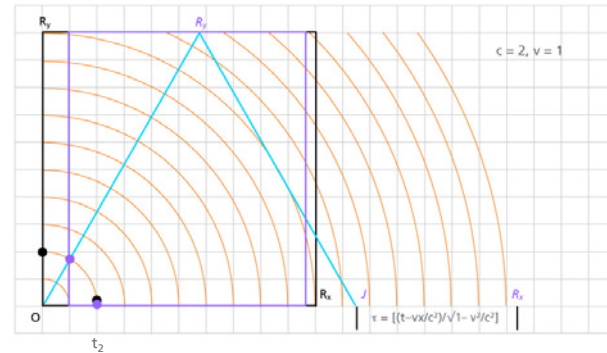
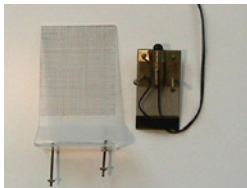


From my notebook, page 71:

Experiment. Although sophisticated satellite technology is proof enough, on March 27, 2000 I conducted the following experiment:

In the basement of a building on College Street, New Haven, I measured out 10 meters... In the easterly corner I secured a laser to a cinder block and in the westerly corner I secured a piece of matte plexiglass upon which was drawn a grid of 2mm units. Behind the plexiglass I mounted a camera on a tripod and took photographs of the light on the plexiglass measuring plate at 12 noon, 2pm, 4pm, 6pm, 8pm, 10pm and 12 midnight. The camera was about 1 foot from the measuring screen, upon which I also placed a piece of black tape to block out the intense central point of the laser light. Once the photographs were developed, I scanned them into the computer and compared the 6 pm exposure and the 12 midnight exposure by superimposing them in Photoshop. This photo-editing program allowed me to examine any discrepancies with great accuracy and high magnification. By making one image negative and the other positive I should detect the slightest variation (a negative and positive of the same image cancel each other out) but I detected no difference between the images taken at different times. According to the theory described on the previous page, 70, the light should have been displaced by 1mm (1mm being 1/10,000 of 10 meters and the velocity of the earth being 1/10,000 of the velocity of light). The light, a crisply focussed beam at a distance of 10 meters, appears to have travelled along  $\varphi N$  of the second illustration, page 70.

4.6.00

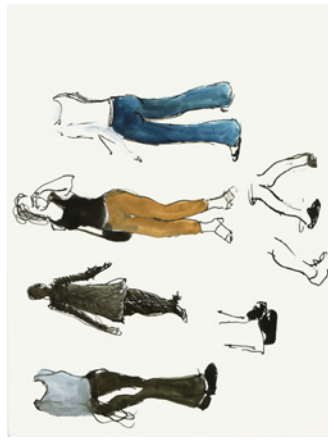




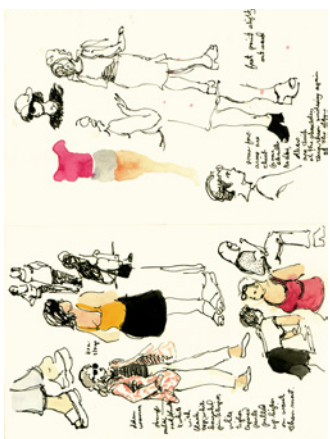
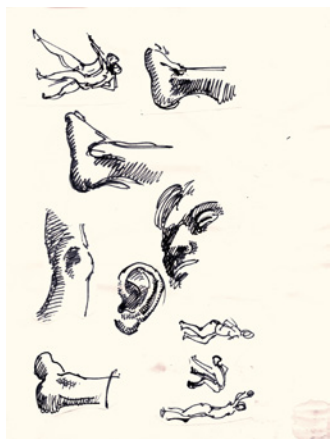
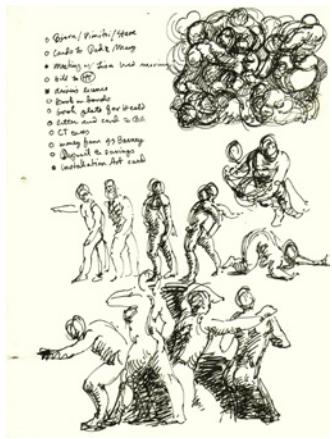
2000—2001



DELINEATIONS









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