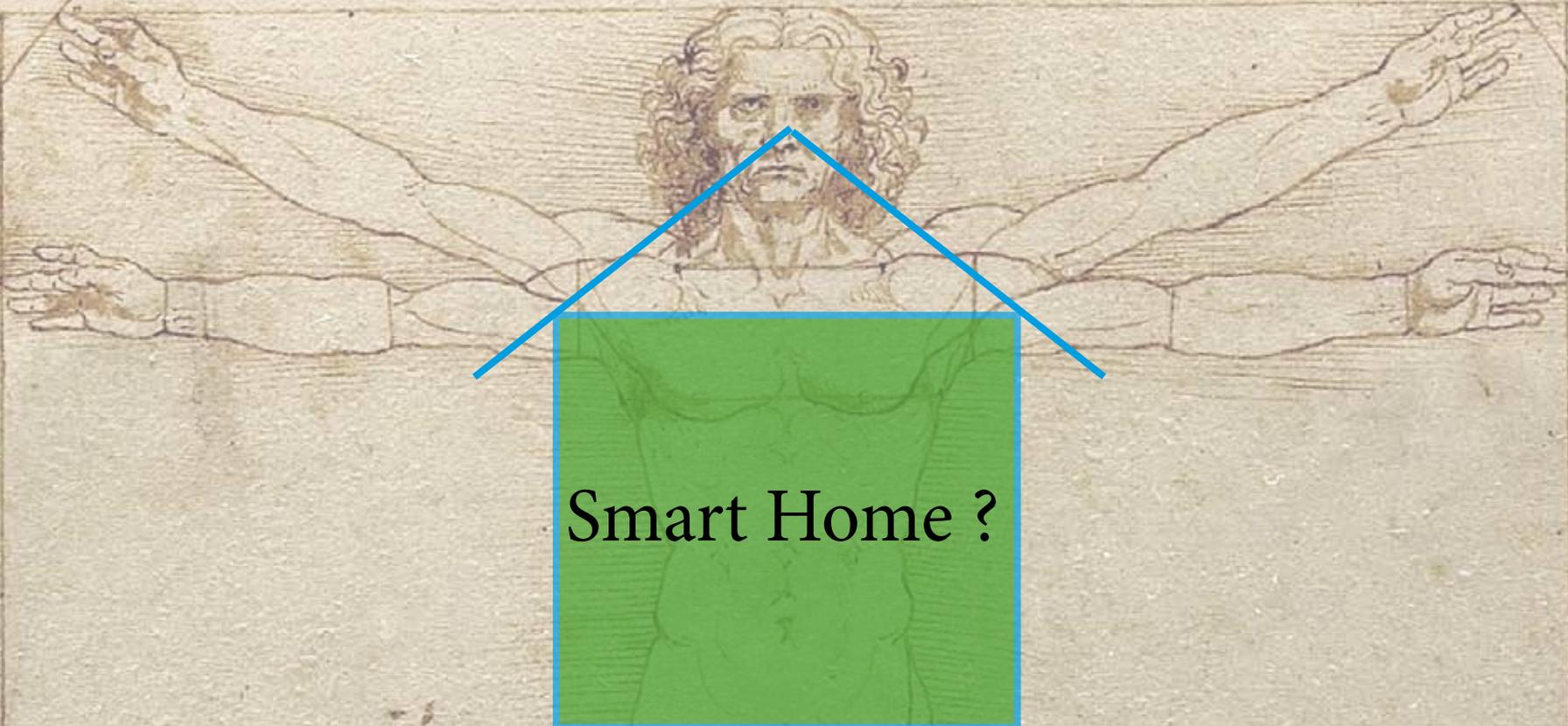


Prof. Dr. Friedrich H. Balck



Smart Home ?

Smart home - smart for people, too?
Unrecognized Harmful Effects on the Human Body

Smart: “intelligent”, “witty”, or “cunning”

Kongress EnergieMedizin
Deutsche Gesellschaft für Energie- und InformationsMedizin e.V. Stuttgart,
29. April 2018, Heidelberg

Leonardo da Vinci

1. Perception of effects of modern technology with biological sensors
2. Changes in domestic living conditions associated with technological changes:
Can humans adapt to the changing conditions?
3. Unrecognized harmful effects on the human body
 - 3.1 Flowing water and alternating magnetic fields
 - 3.2 New lighting technology: LED lamps
 - 3.3 Contour generators
 - 3.4 Novel key experiment
 - 3.5 Attempted physical interpretation
4. Summary and postulates

references available at www.biosensor-physik.de/biosensor/xxx.htm for instance publications at biosensor/b-literatur.htm

1. Perception of effects of modern technology with biological sensors

Two hundred years ago, before the invention of photosensitive film and photocells, it was not possible to demonstrate the existence of light objectively or scientifically without biological sensors.

A few persons can perceive “something”.

Comments by others:

What?

I do not notice anything!

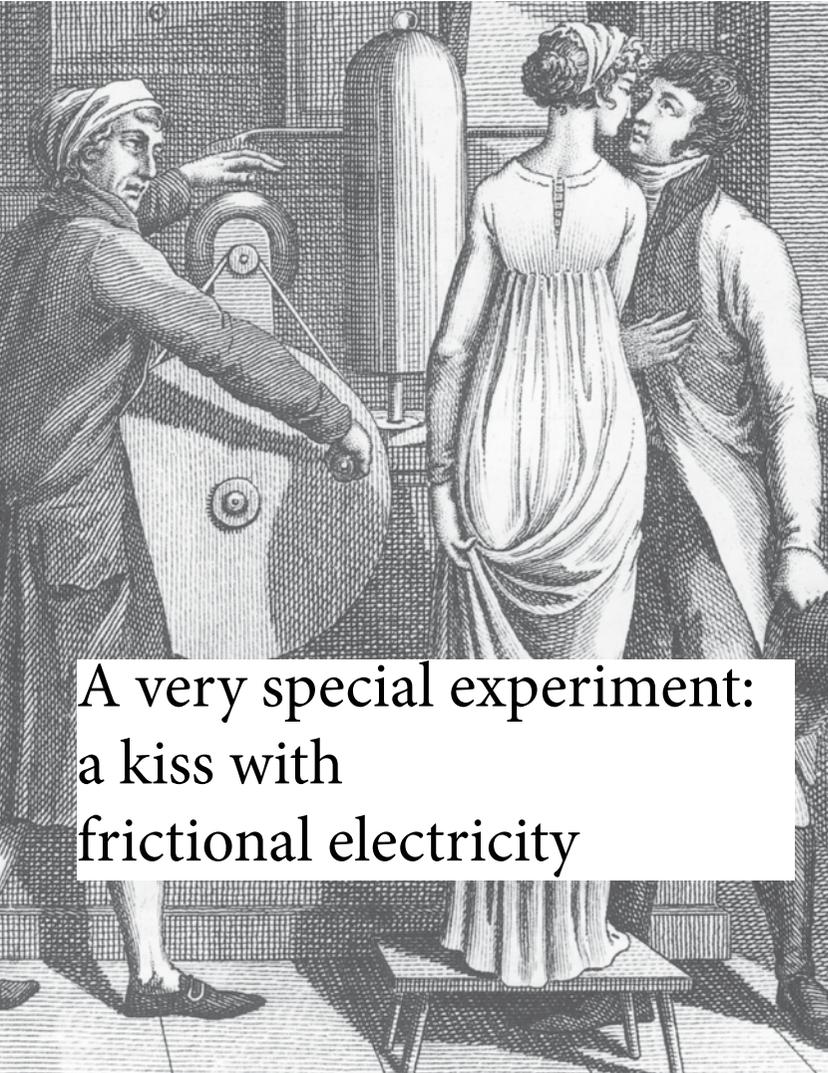
How is that possible! (! or ?)

Nothing is known to me!

Has that ever been measured?

Is that scientific?

Before the invention of measuring instruments, human beings functioned as indicators for physical experiments (for instance, Musshenbroek, Faraday). This is still true today. **After all, not everything is measurable!**



A very special experiment:
a kiss with
frictional electricity

Pieter van Musshenbroek (1662-1761)

Leyden jar

Michael Faraday (1791 -1867)

electromagnetism

Musshenbroek: “ . . . experiments . . .
during **which many persons perceived an electric shock upon discharge from one and the same (Leyden) jar. . . .**

At the Carthusian monastery in Paris, all monks of the cloister community formed a human chain 900 klafter (spans with outstretched arms) in length.

(For this purpose, two persons each were mutually joined by an iron wire.) . . .

Without exception, all participants suddenly and simultaneously jumped, and all perceived the jolt during the discharge from the jar.“

Priestley, J. The History and Present State of Electricity, London 1775, vol 1. pp 106-107, from /Simonyi, 2001/ page 327

Persons with extended senses can perceive invisible structures.

Approximately every fifth person possesses extended perceptive abilities.

The invisible structures are associated with a form of matter which is not visible with the unaided eye or with cameras.

These structures are characterized by different polar qualities, since they are well separated from one another.

More than one hundred years ago, this matter was designated as “ether”.

Nowadays, terms such as

**“feinstoffliche Materie”, “dark matter”, “subtle matter”, or
zero-point energy (ZPE)**

are employed as designations for this concept.

Extended perceptive ability

Various senses exist, and they may be more or less activated or “enabled”.

- Perception with one’s body
(hands, arms, legs, forehead, cheeks, abdomen, etc.)
- “Seeing”: recognizing and scanning structures with the “sight beam” (J. Purner), or perceiving the structures as overall images
- “Hearing” upon perception: perception of neural impulses as different timing frequencies
- Use of a divining rod or tensor as indicating instrument

Georg Agricola, (1494 - 1555)
De re metallica libri XII, zwölf Bücher vom Berg- und Hüttenwesen, 1556



2. Changes in domestic living conditions associated with technological changes

Jeder Ehemann hat die Pflicht,

seiner Frau das Leben so angenehm wie möglich zu machen



und das geschieht am besten, indem er alles im Hause elektrisch einrichten lässt.

It is the responsibility and obligation of every husband to make life as pleasant as possible for his wife ... and this can best be accomplished by ensuring that all household chores can be performed **electrically!**

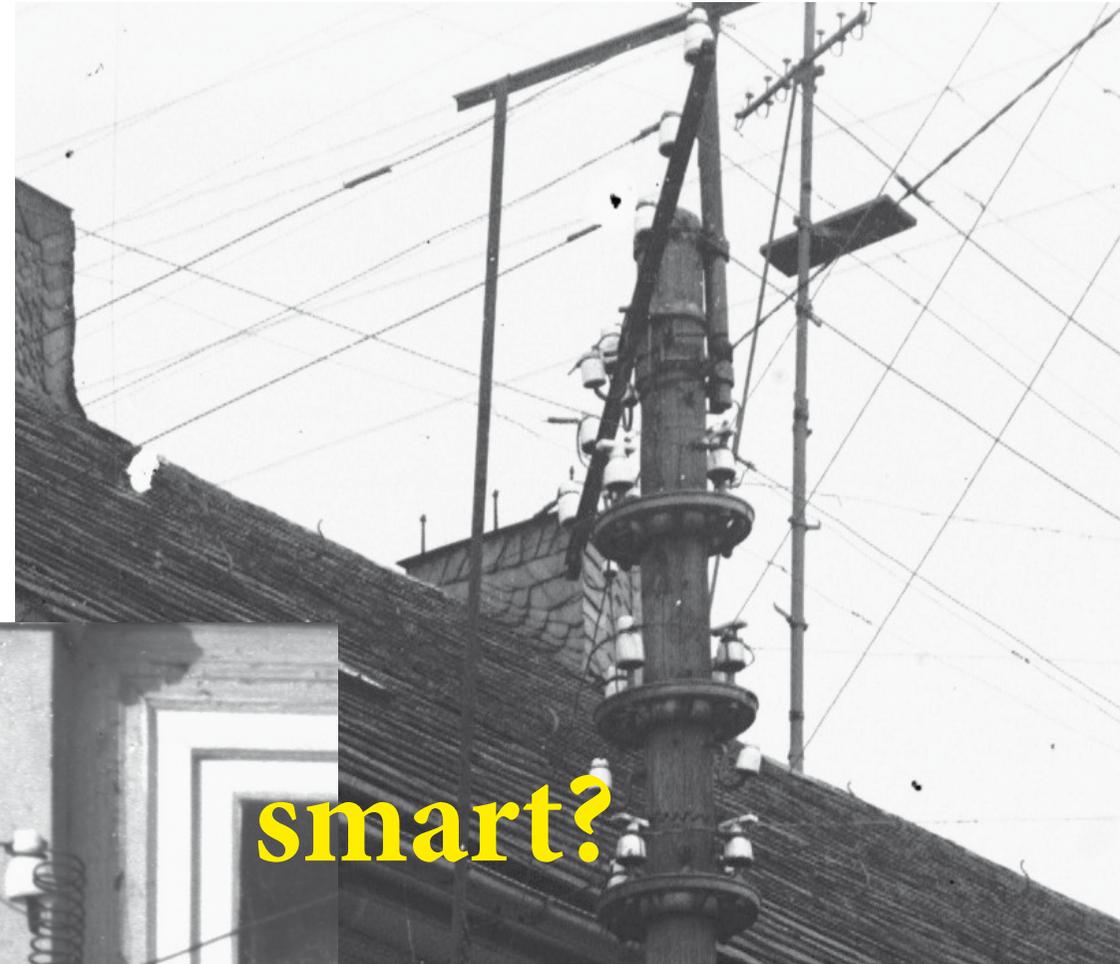


... everything in the house is electrical

2. Changes in domestic living conditions associated with technological changes

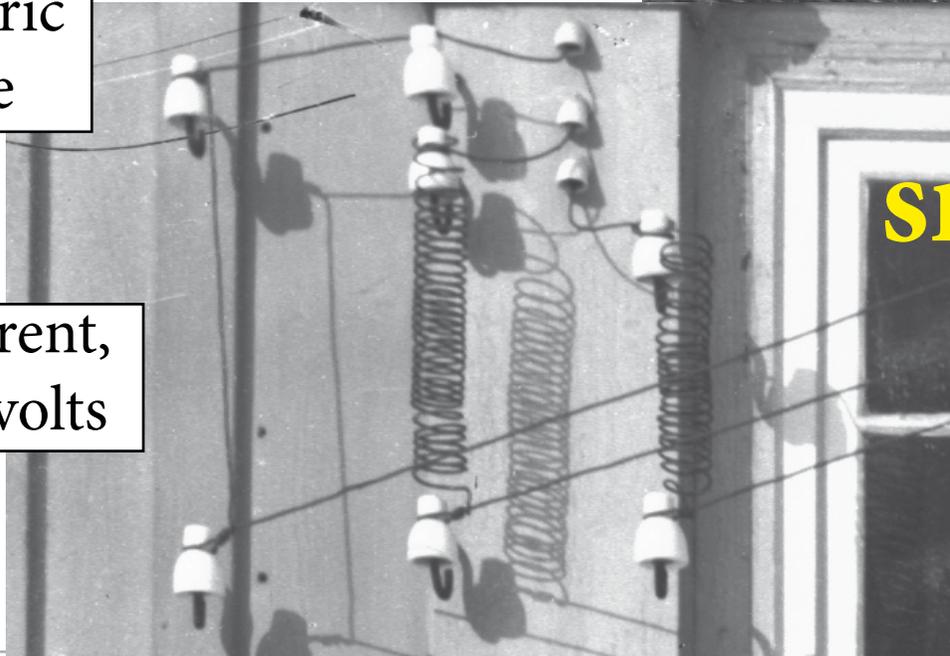


Still visible: electric wiring in a house



smart?

Direct current, twice 110 volts



Electric power and telephone lines

2. Changes in domestic living conditions associated with technological changes

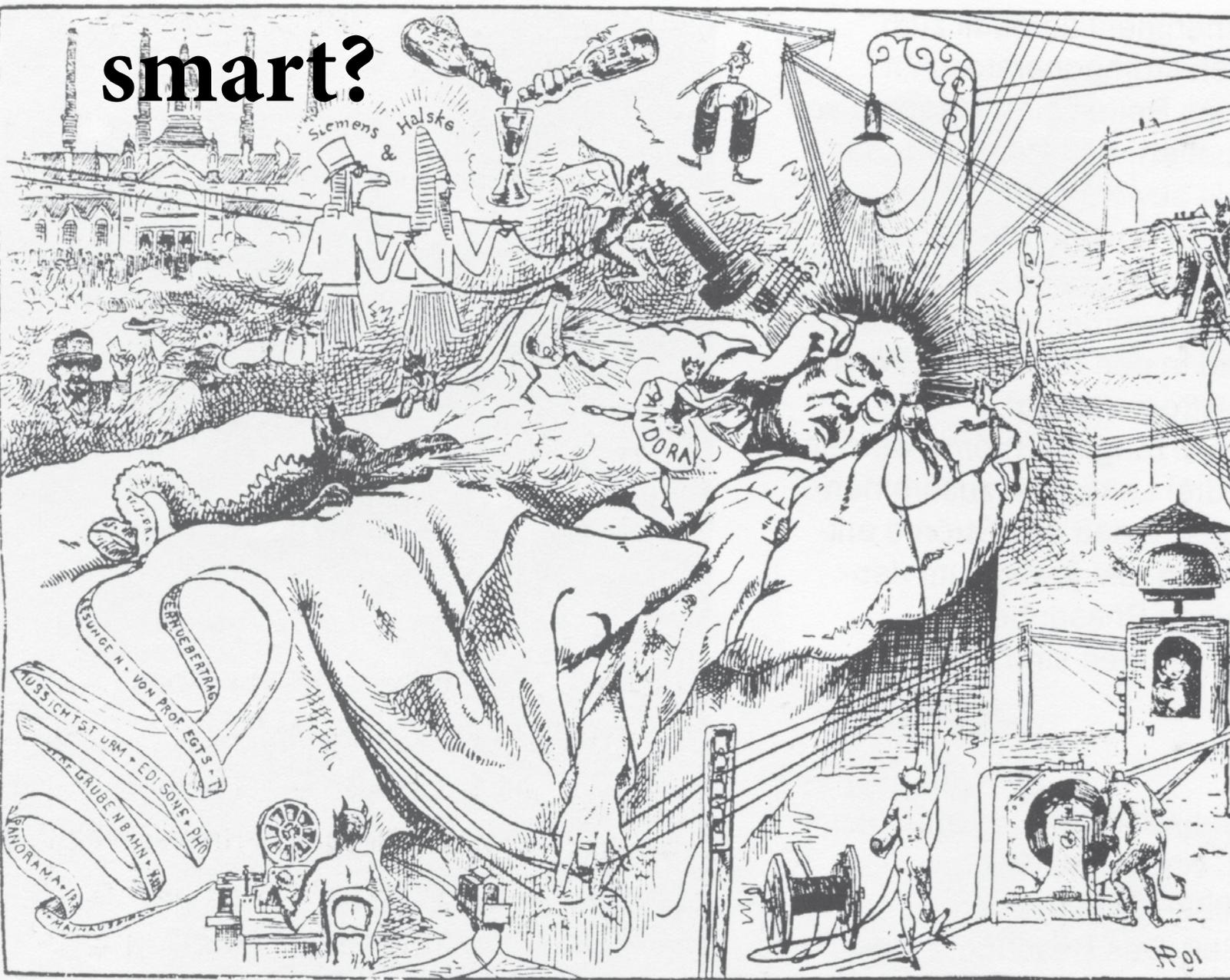
smart?

Visions in 1891

Telephone, telegraph, arc lamp, door bell, electric power lines, power plant

Visions of the 'electro-technical' age from the year 1891

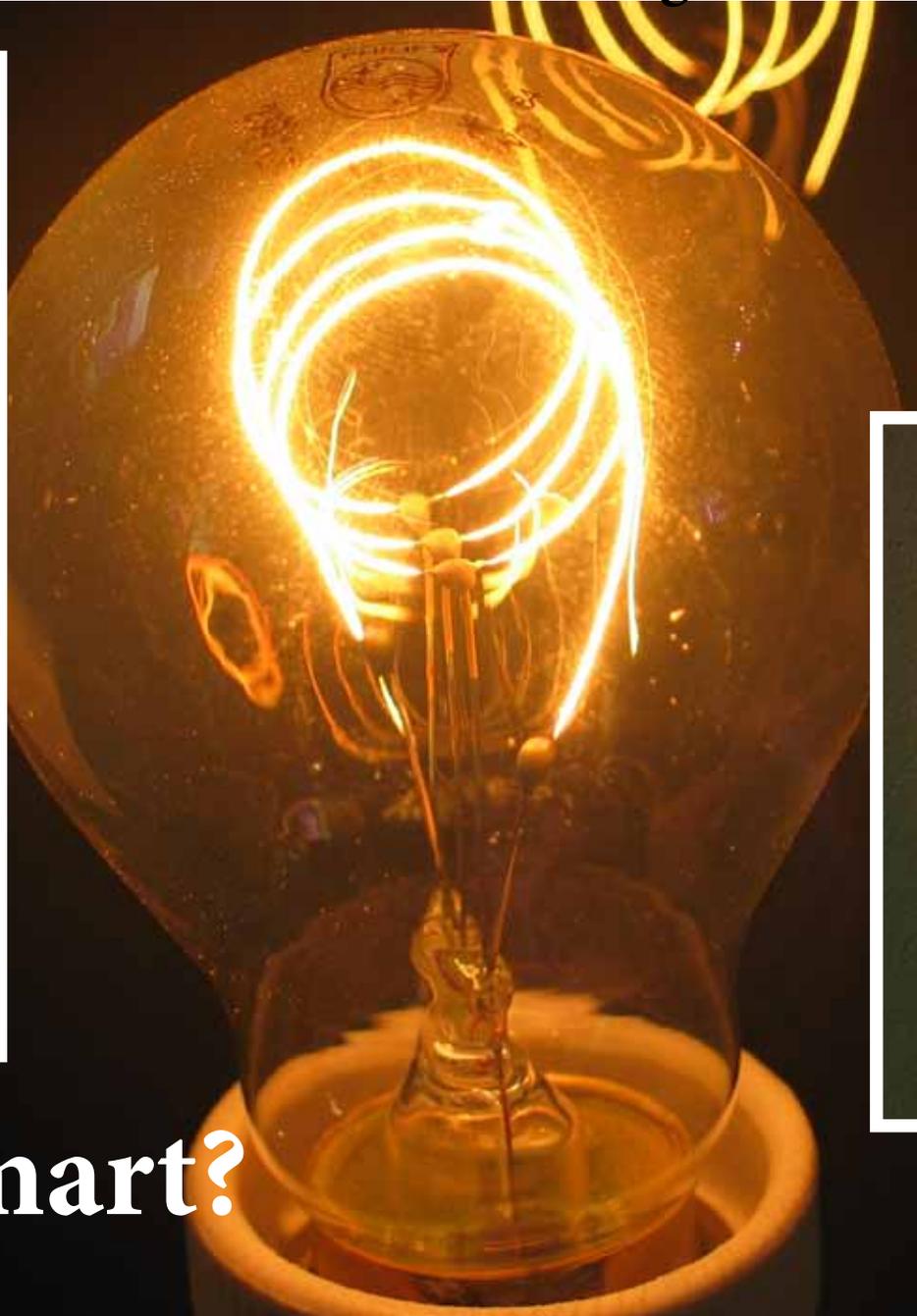
Frankfurter Kleine Presse (Varchmin, S. 7)



2. Changes in domestic living conditions associated with technological changes



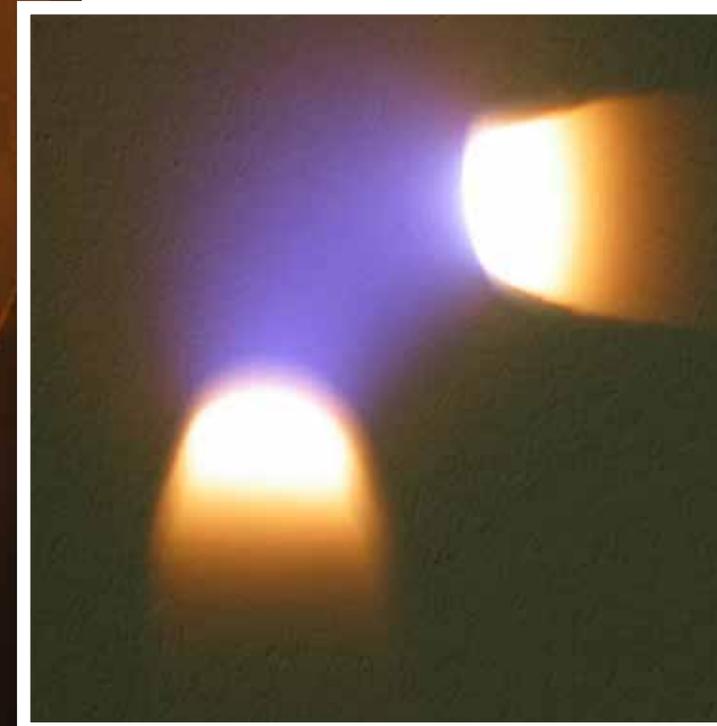
Gas light



Incandescent lamp

smart?

Gas light and electric light

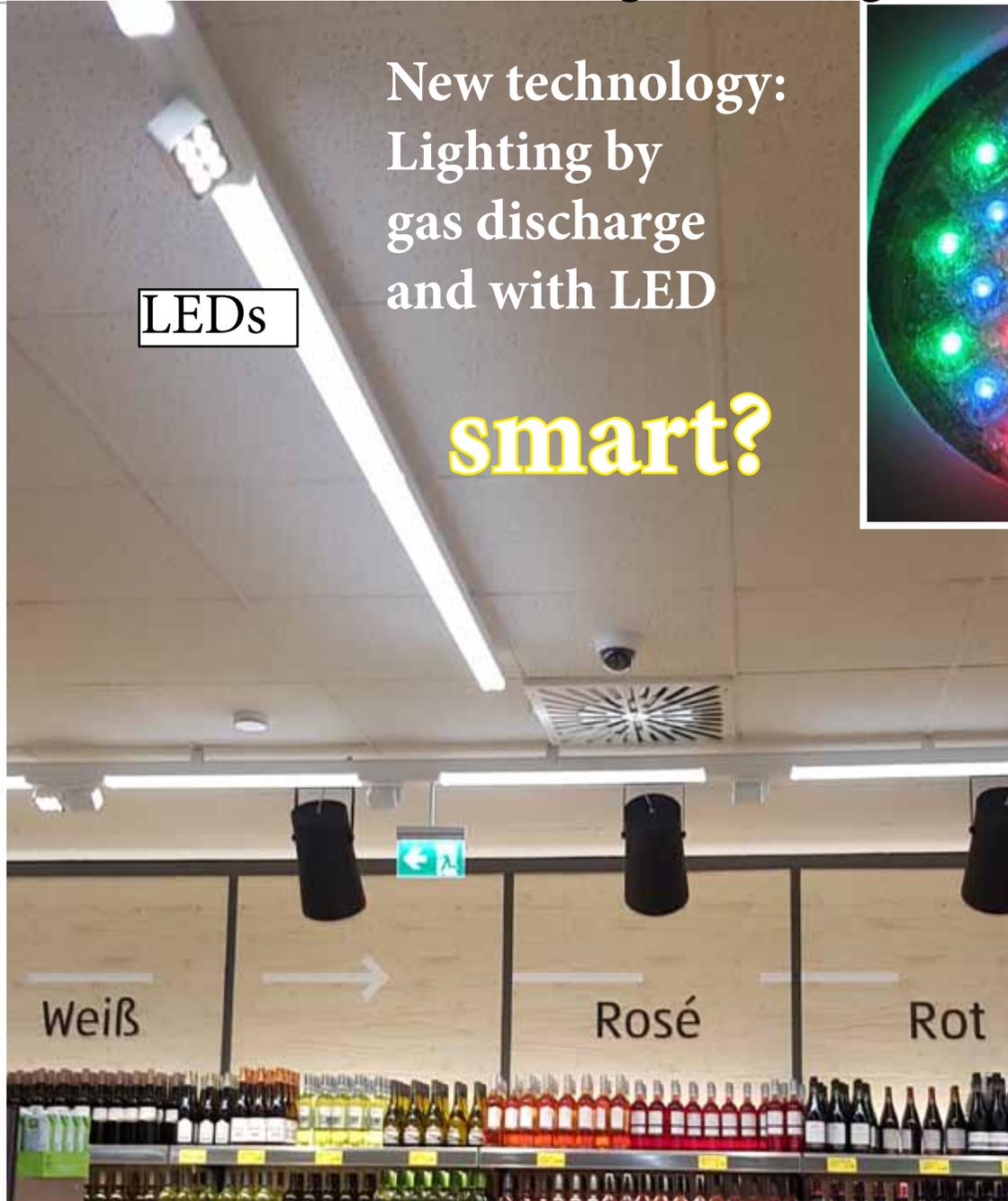


Arc lamp

2. Changes in domestic living conditions associated with technological changes



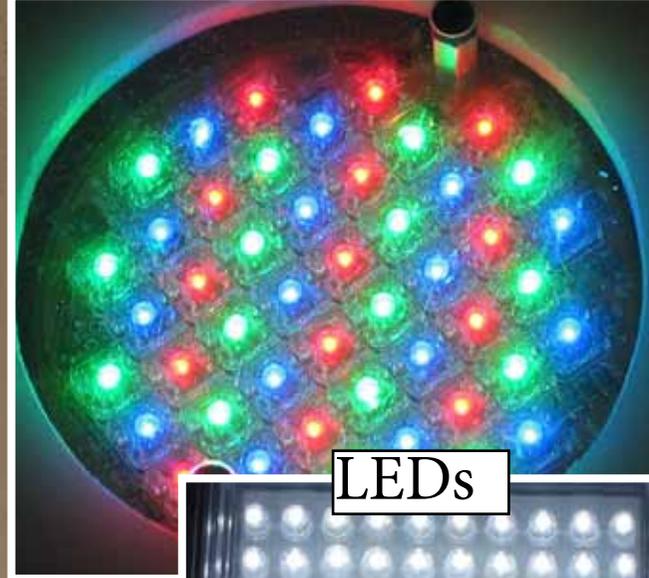
Gas-discharge lamp



New technology:
Lighting by
gas discharge
and with LED

LEDs

smart?



LEDs



2. Changes in domestic living conditions associated with technological changes

Warning by TELEKOM concerning WLAN

Operating instructions (Speedport W724 V):

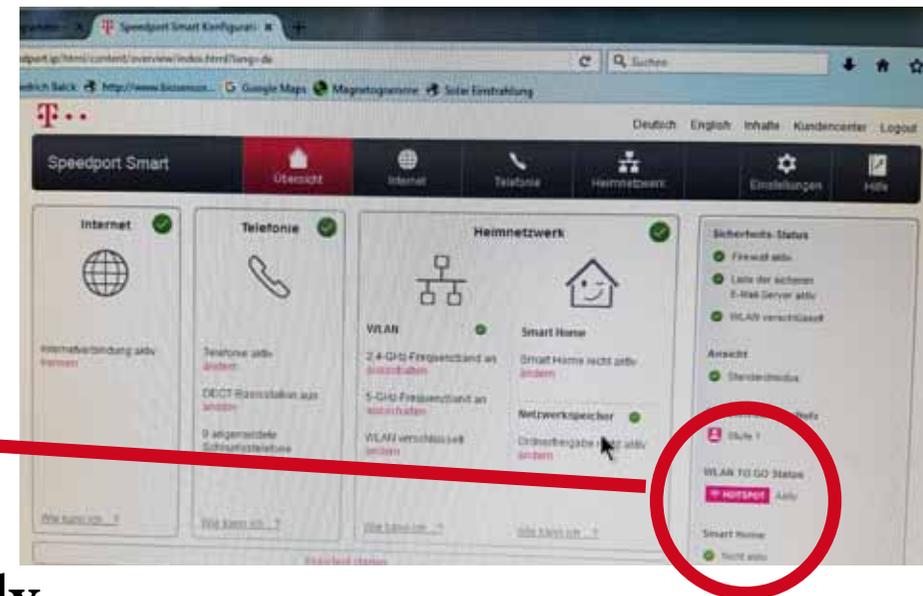
“The integrated antenna of your Speedport transmits and receives radio signals, for instance, for WLAN operation. In order to minimize possible health hazards due to electromagnetic fields, **do not install your Speedport in the immediate proximity of bedrooms, nurseries, or living rooms.**“

“WLAN TO GO

At no additional cost, mobile surfing in the world’s biggest Hot Spot network”

<https://www.telekom.de/wlan-to-go>

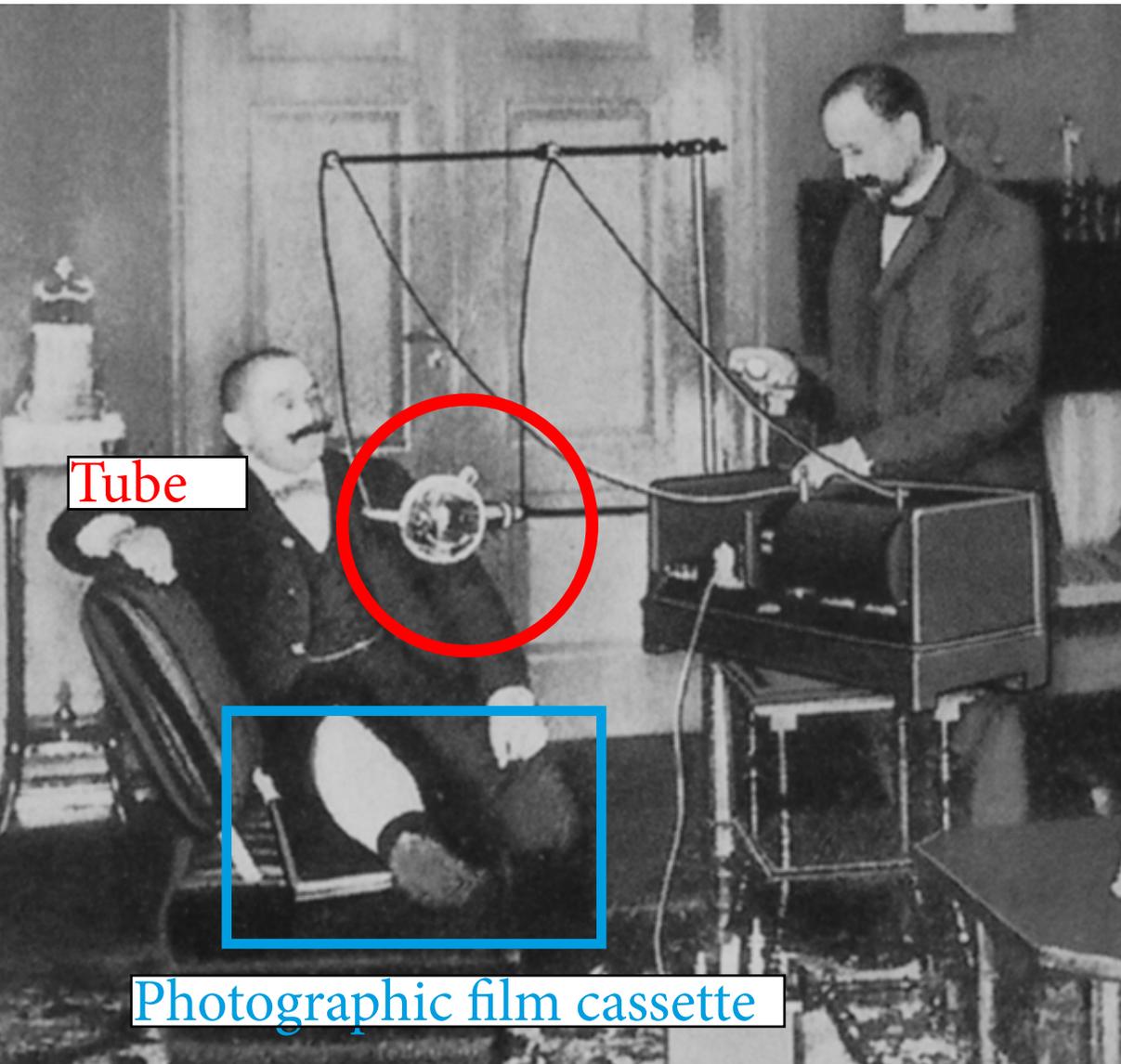
The “Hot Spot” setting is already pre-set upon delivery of the unit.



Consequence: In cities, everyone is constantly exposed to WLAN, even out-of-doors!

smart?

Bremsstrahlung: Exposed x-ray tube



Tube

Photographic film cassette

Wilhelm Röntgen discovered the new rays in November 1895.

Friedrich Oskar Giesel (1855-1923) endeavoured to optimize the quality of x-ray images.

In a letter dated 13.3.1897, he wrote:
“My son’s hair still not growing”

R.G.A. Fricke, Friedrich Oskar Giesel, Pionier der Radioaktivitätsforschung, Opfer seiner Wissenschaft, (Pioneer in Research on Radioactivity, Victim of his Science) (2001) ISBN 3-00-008179-8, AF-Verlag, Wolfenbüttel, Seite 69

The patient presumably said: “I have not noticed anything!”

3.1 Flowing water and alternating magnetic fields

Cordless telephone
(DECT) and flowing water

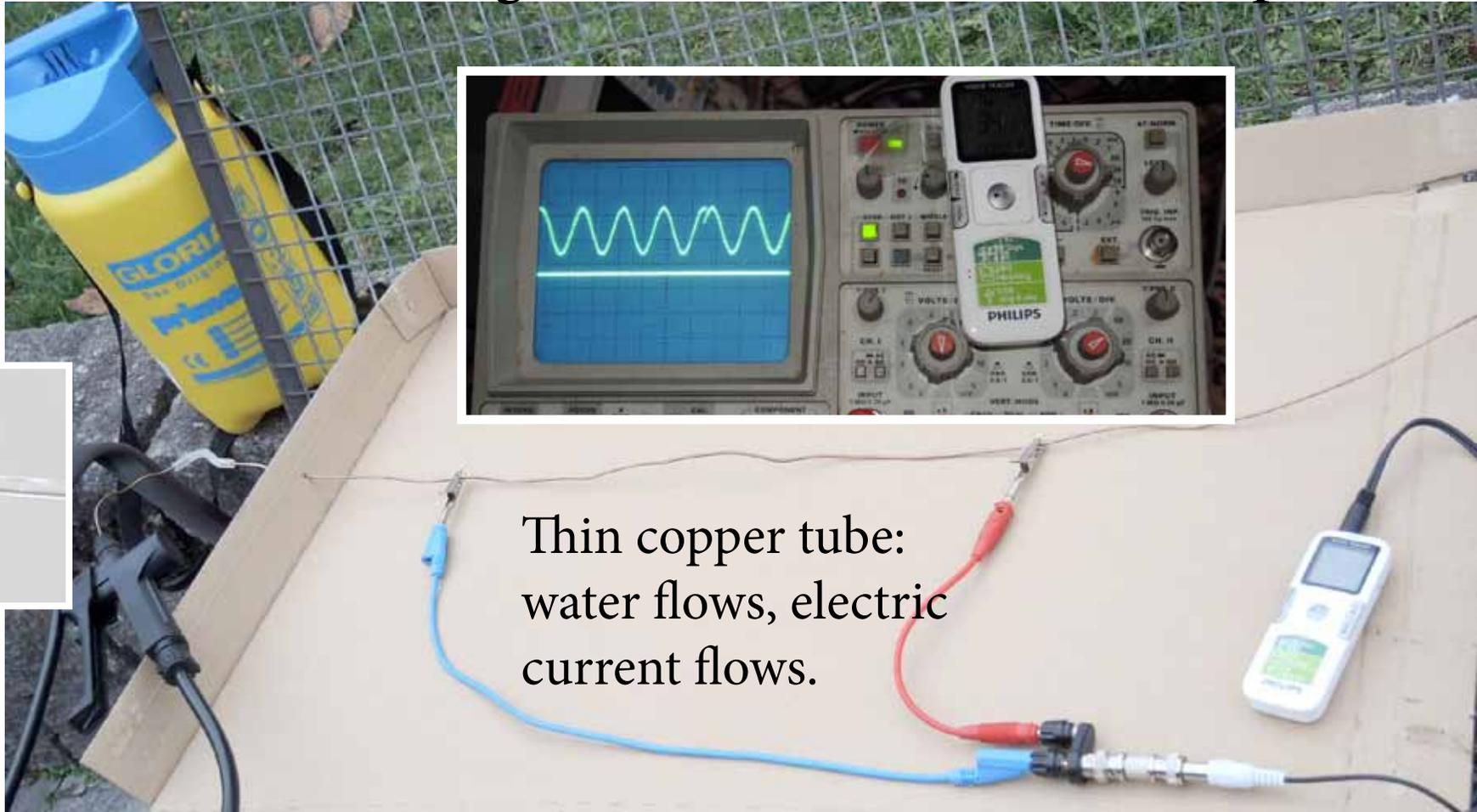
Even with this very thin jet of water, the electric smog is more intensely perceptible. -->

**The most serious geopathic exposure in houses:
electrical appliances over aquifers!**

3.1 Flowing water and alternating magnetic fields

Artificial aquifers and alternating electric current from dictaphone

Pressurised tank with water



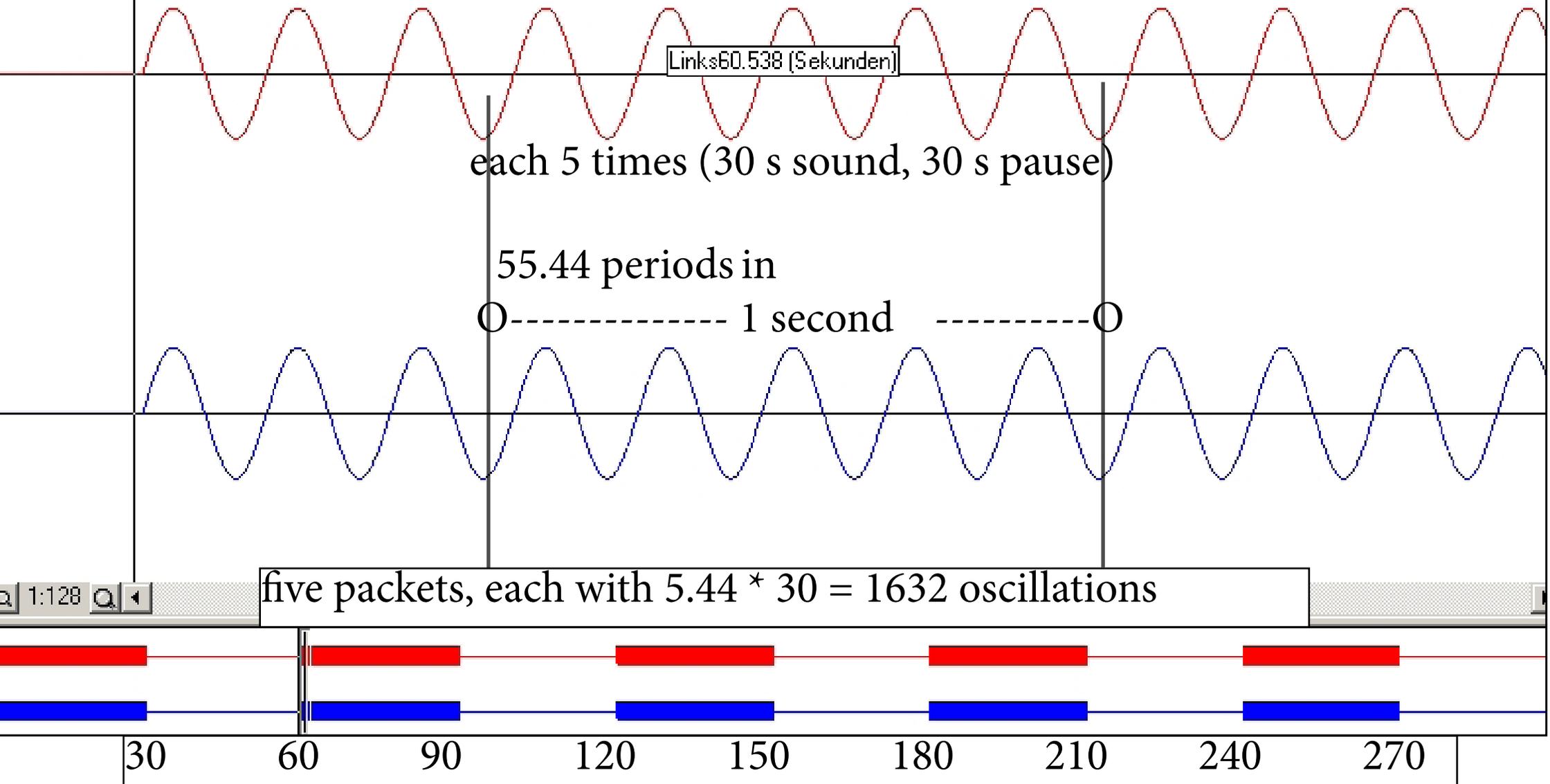
Thin copper tube:
water flows, electric
current flows.

Thin jet of water

Electric current from head-phone jack:

MP3 files with 8.3 Hz; 5.4 Hz; 1.3 Hz each 5 times (30 s sound, 30 s pause)

3.1 Flowing water and alternating magnetic fields



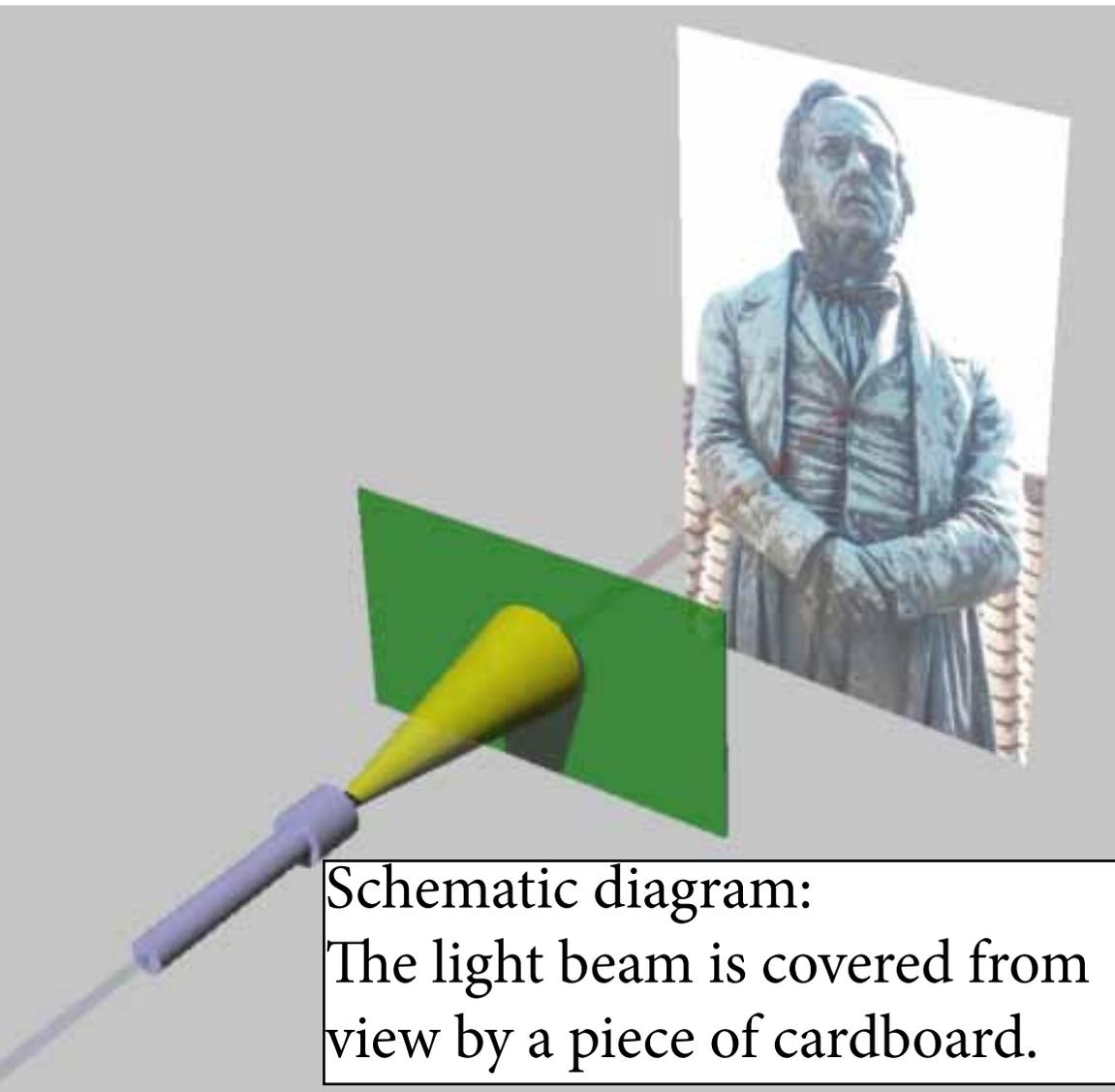
DVT_B037-1-33Hz-mit-pausen.mp3

DVT_B035-5-44Hz-mit-pausen.MP3

DVT_B036-8-33Hz-mit-pausen.mp3

biosensor/elektrosmog.htm#kapitel-01

3.2 New lighting technology: LED lamps



biosensor/led-stress.htm

Spontaneous allergy test:

The “beam” from a **covered** LED flash light was directed toward a patient with an unknown allergy.

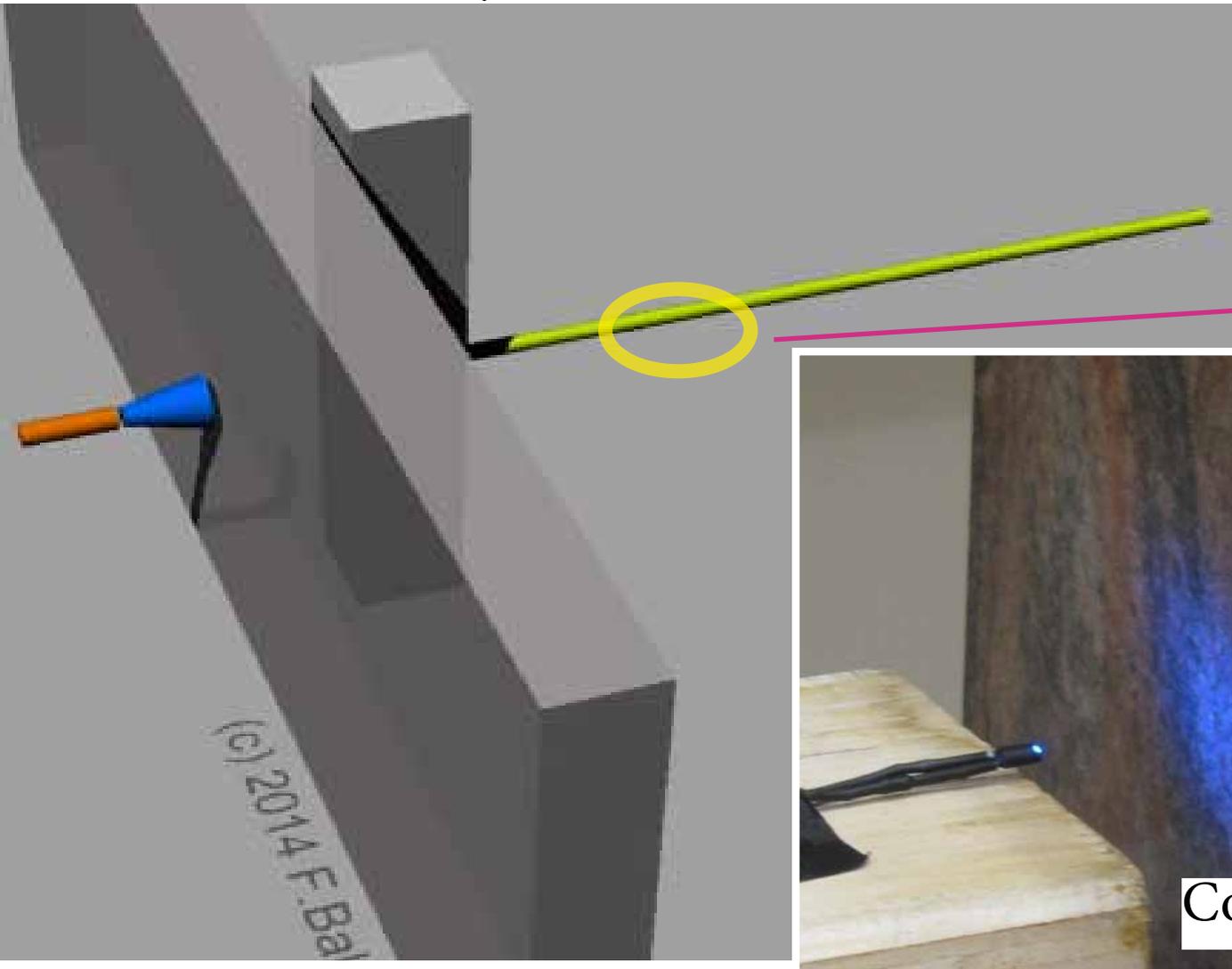
A **very few seconds** were sufficient for triggering her allergy.

As is characteristic for this allergy, her thyroid gland became swollen, and she was no longer able to speak normally.

Evidently, not only light is emitted by this LED lamp.

3.2 New lighting technology: LED lamps

The effect of an LED lamp penetrates through concrete 60 cm thick and influences bodily fields.



Experiment with a concrete wall

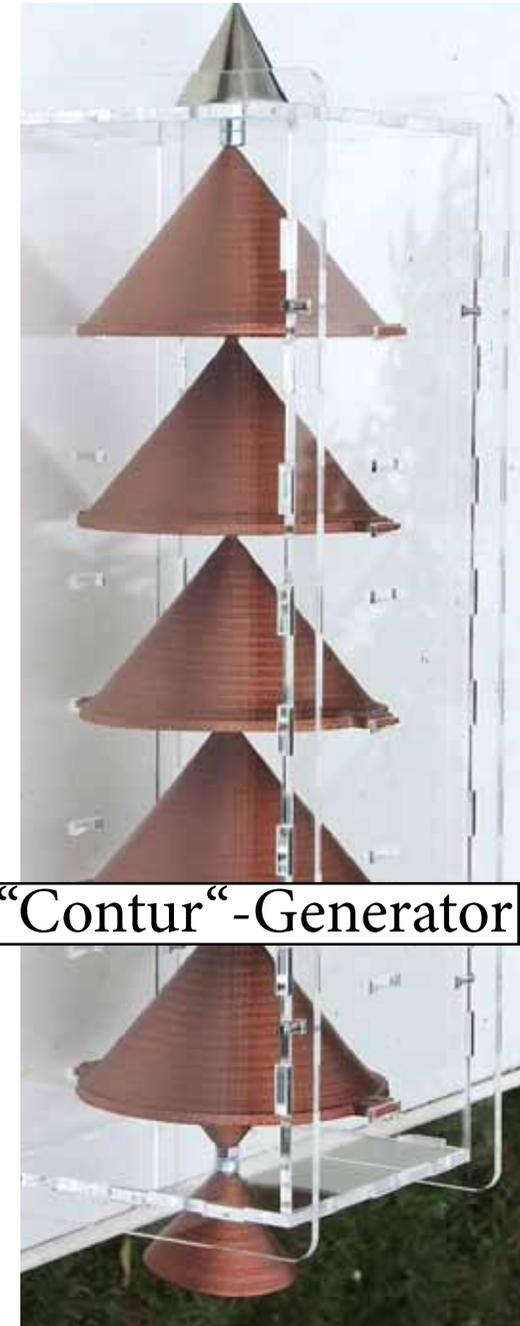
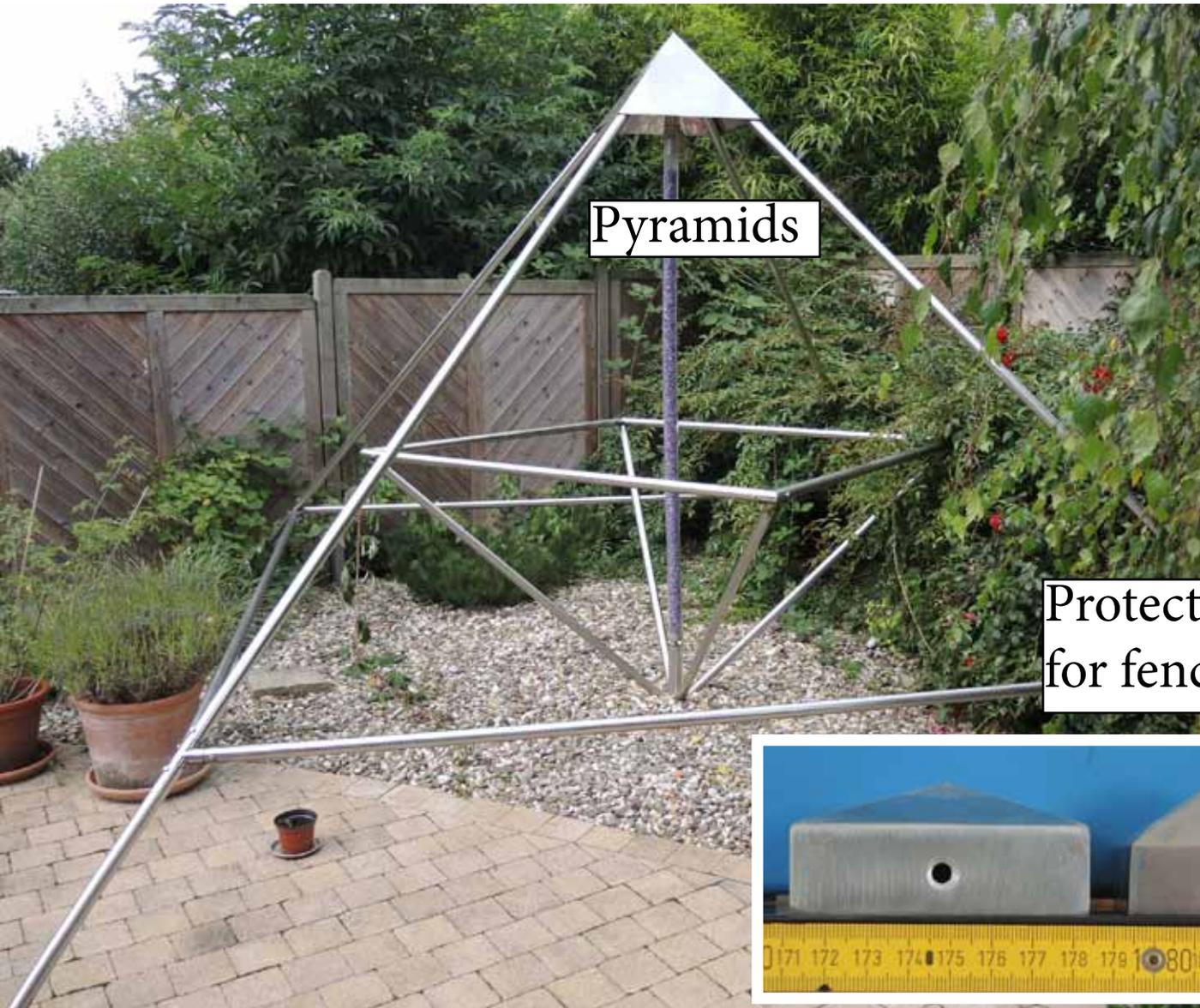
Location of the test person



3.3 Contour generators

- **Edges, sharp points, and smooth, mutually inclined planar surfaces generate perceptible structures.**
- This phenomenon can cause **stress and uneasiness**.
With Feng Shui, this knowledge is passed on to others, among other information.
- **Pyramids and obelisks** exert a special influence.
- **Several objects positioned in succession** considerably amplify the effects.

3.3 Contour generators



biosensor/konische-koerper-kurz.htm

3.3 Contour generators

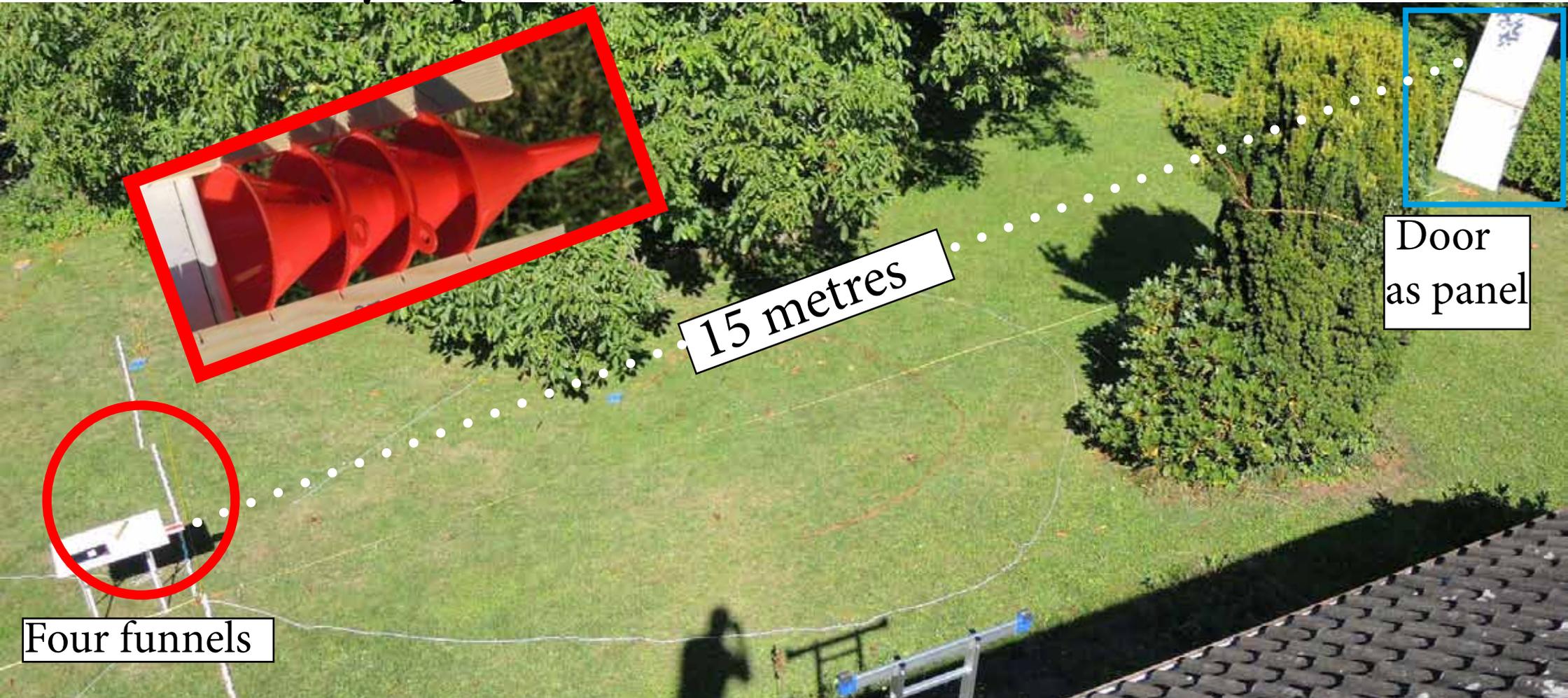


From where did the excitation come?



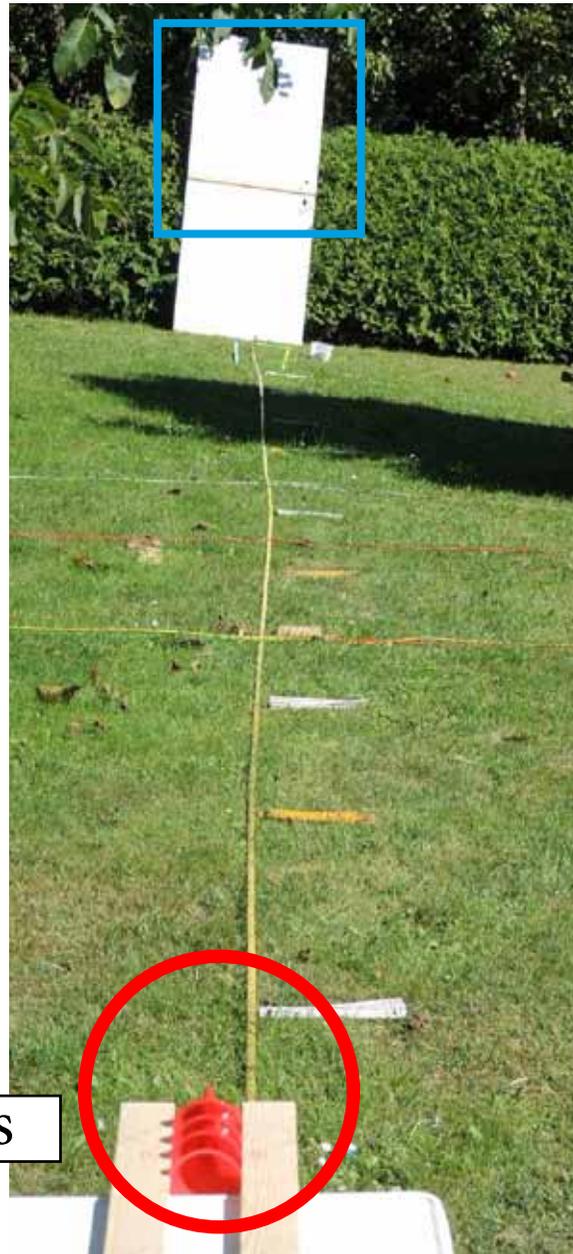
biosensor/konische-koerper-kurz.htm

3.4 Novel key experiment

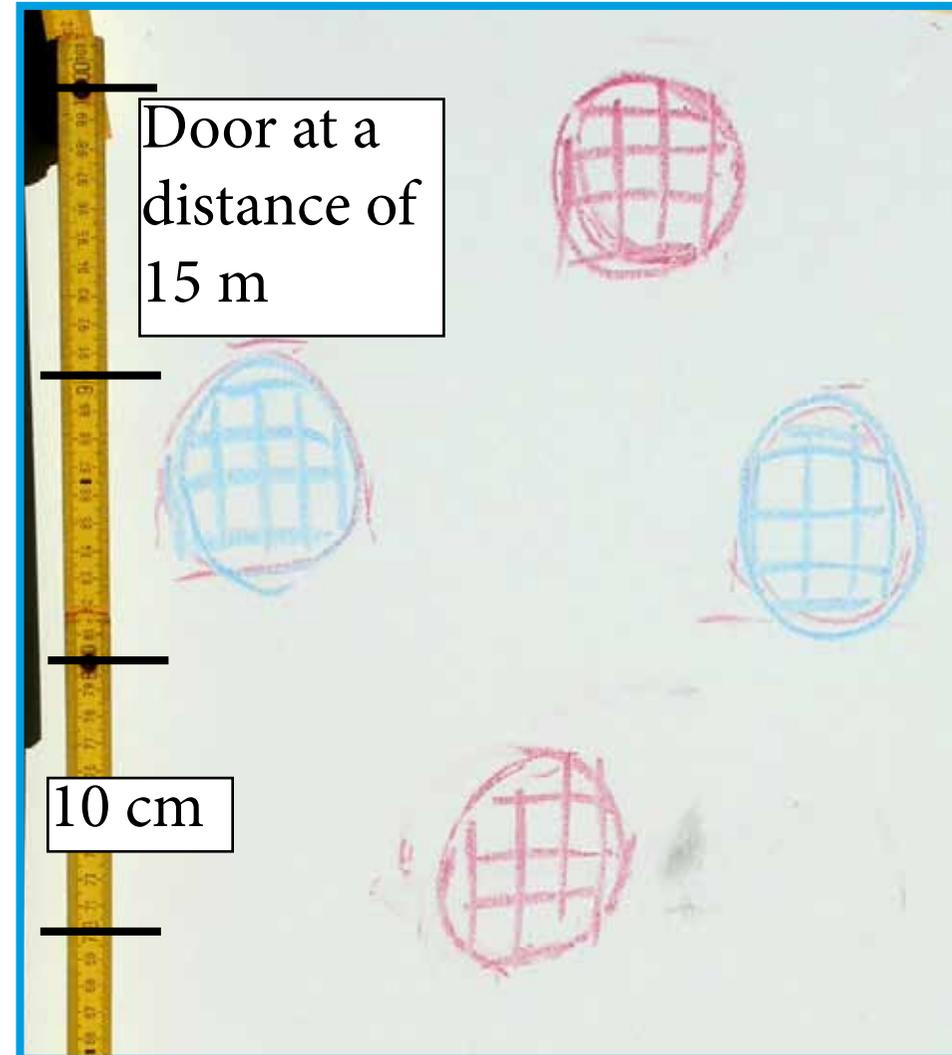


“Spectrometer” in a garden for measuring the geometry of the perceptible structures

3.4 Novel key experiment



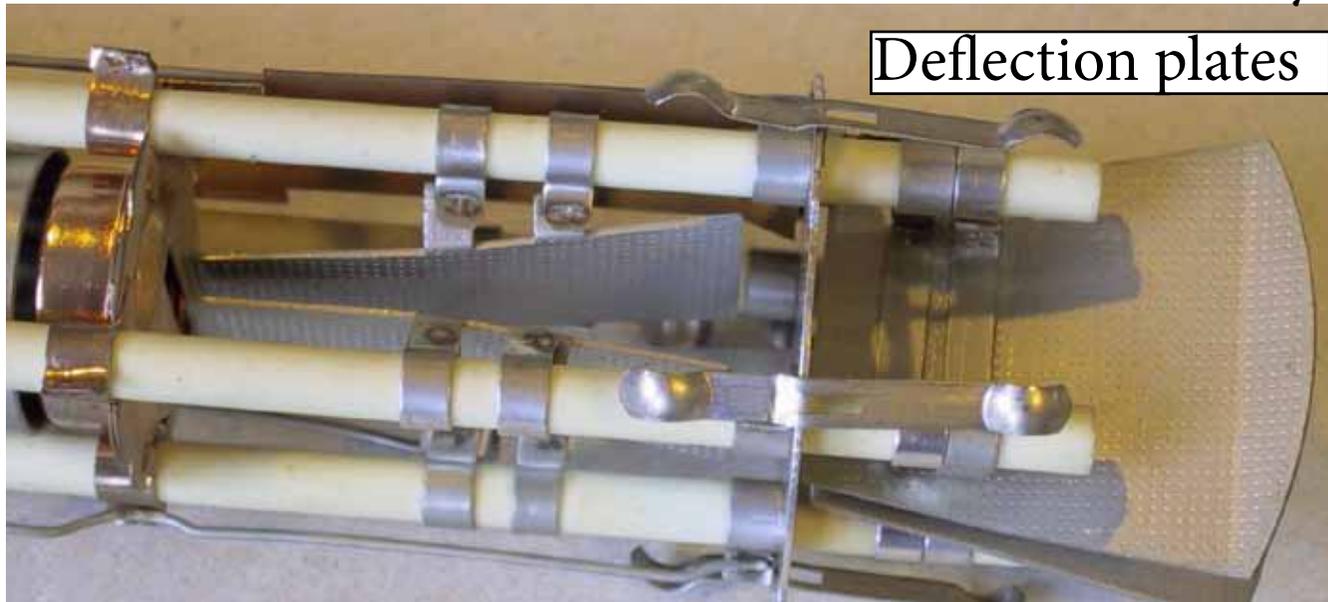
Four funnels



Four “beams” with pairwise distinguishable qualities

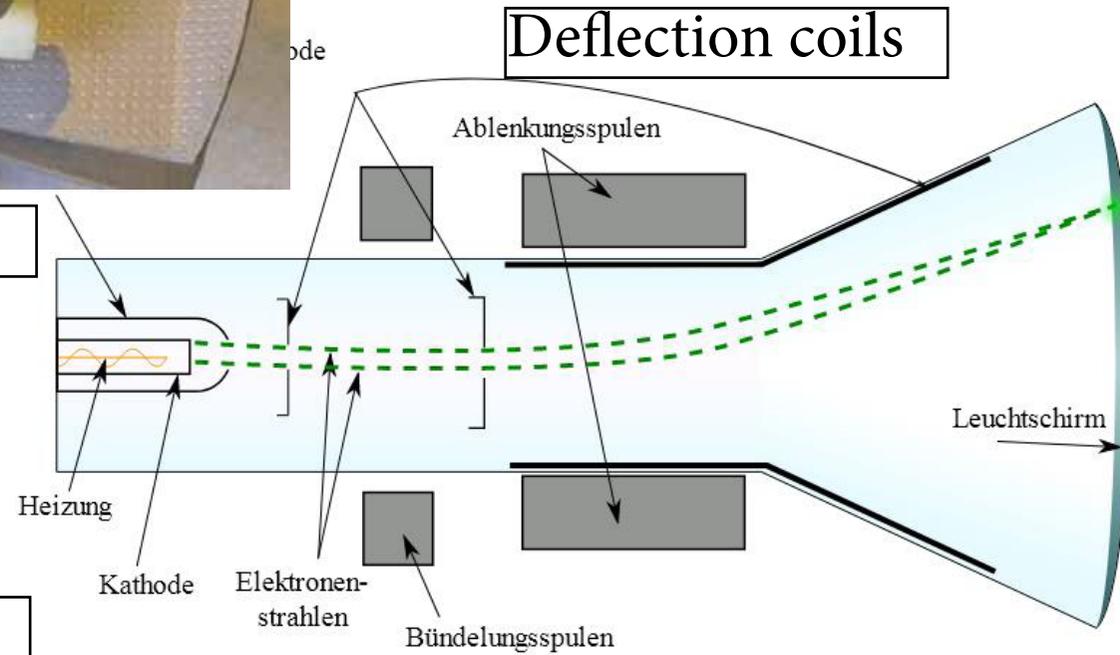
3.4 Novel key experiment

Deflection of the electron beam in a cathode-ray tube



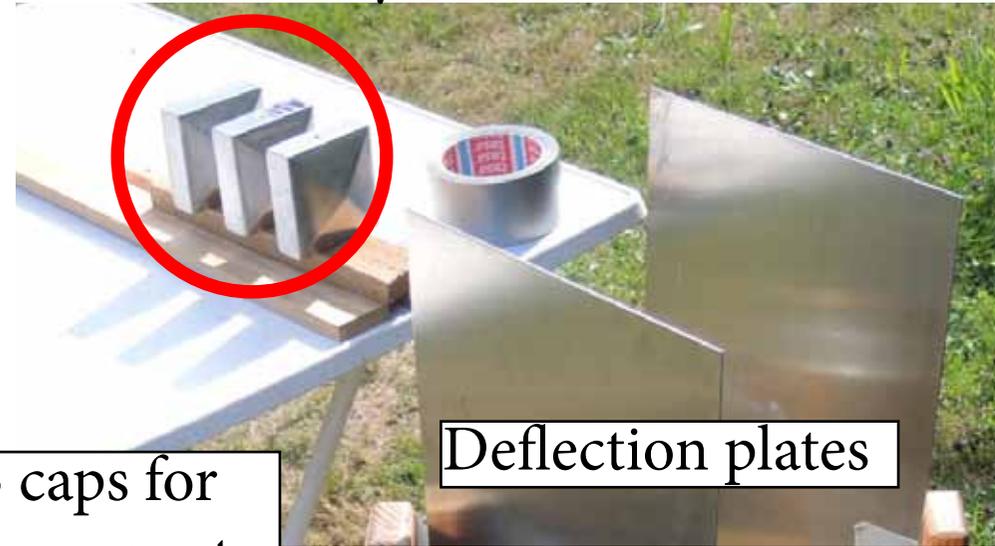
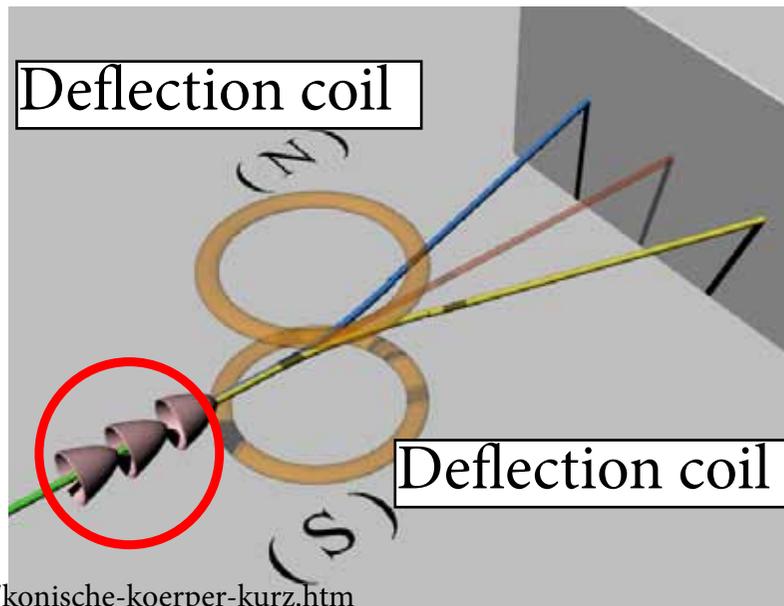
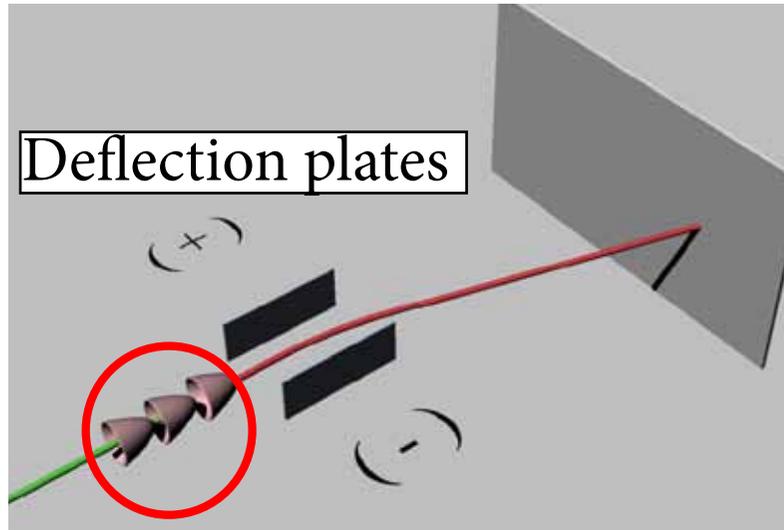
Electric field: oscilloscope tube

Magnetic field: television picture tube

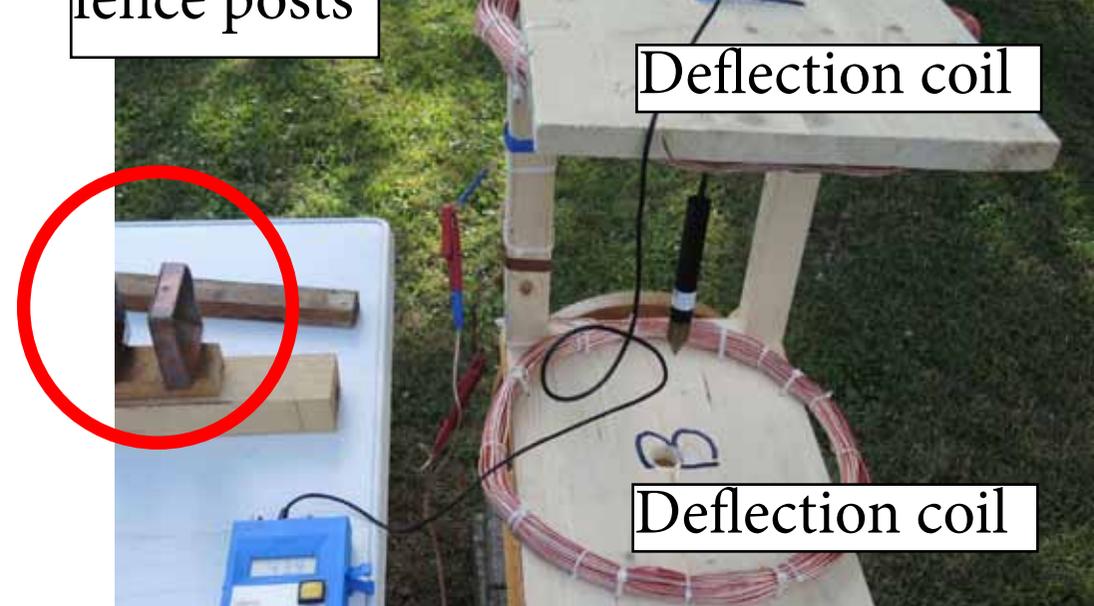


3.4 Novel key experiment

Conical bodies - deflection of the "beams", as in cathode-ray tubes

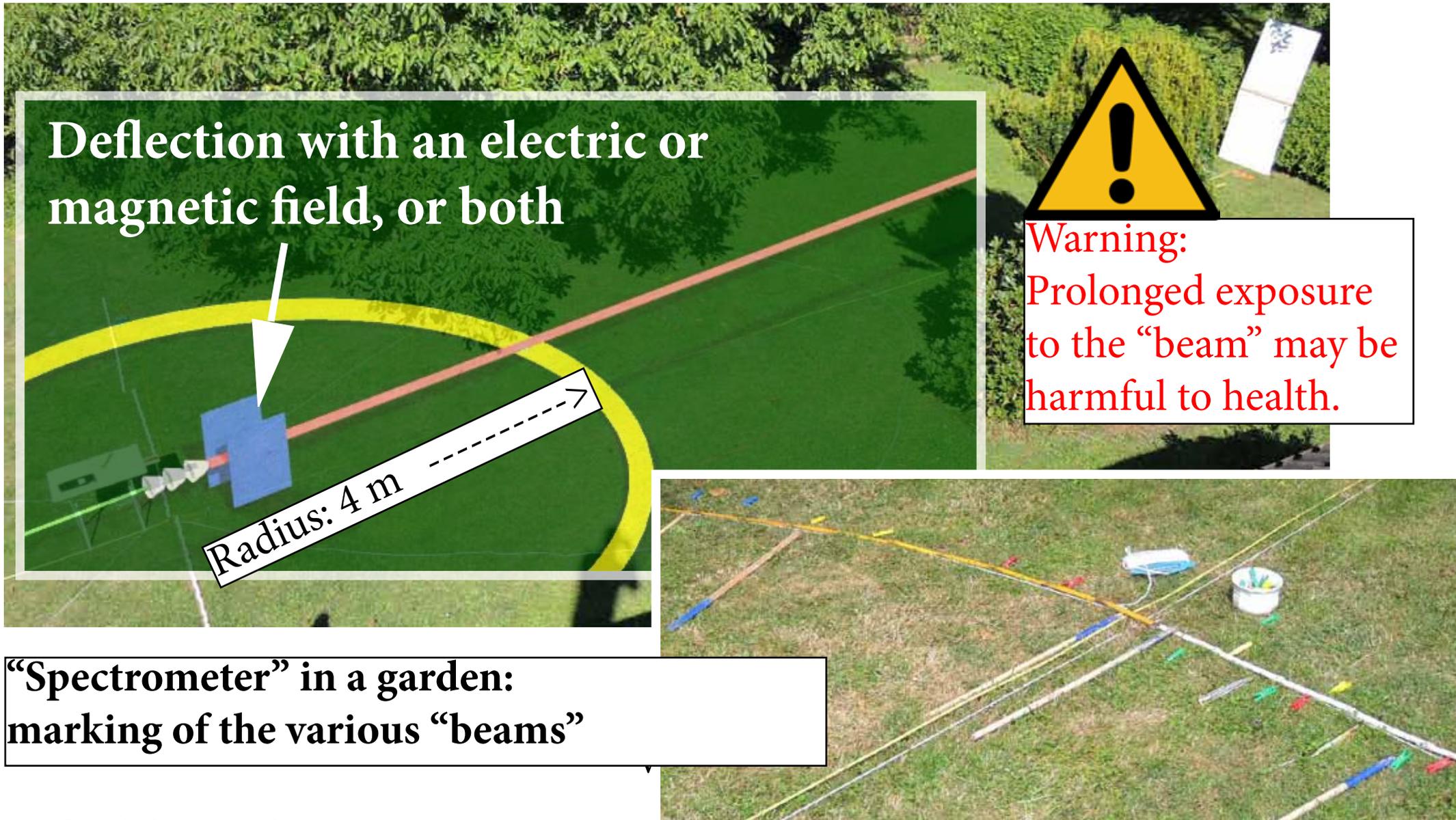


3 caps for fence posts



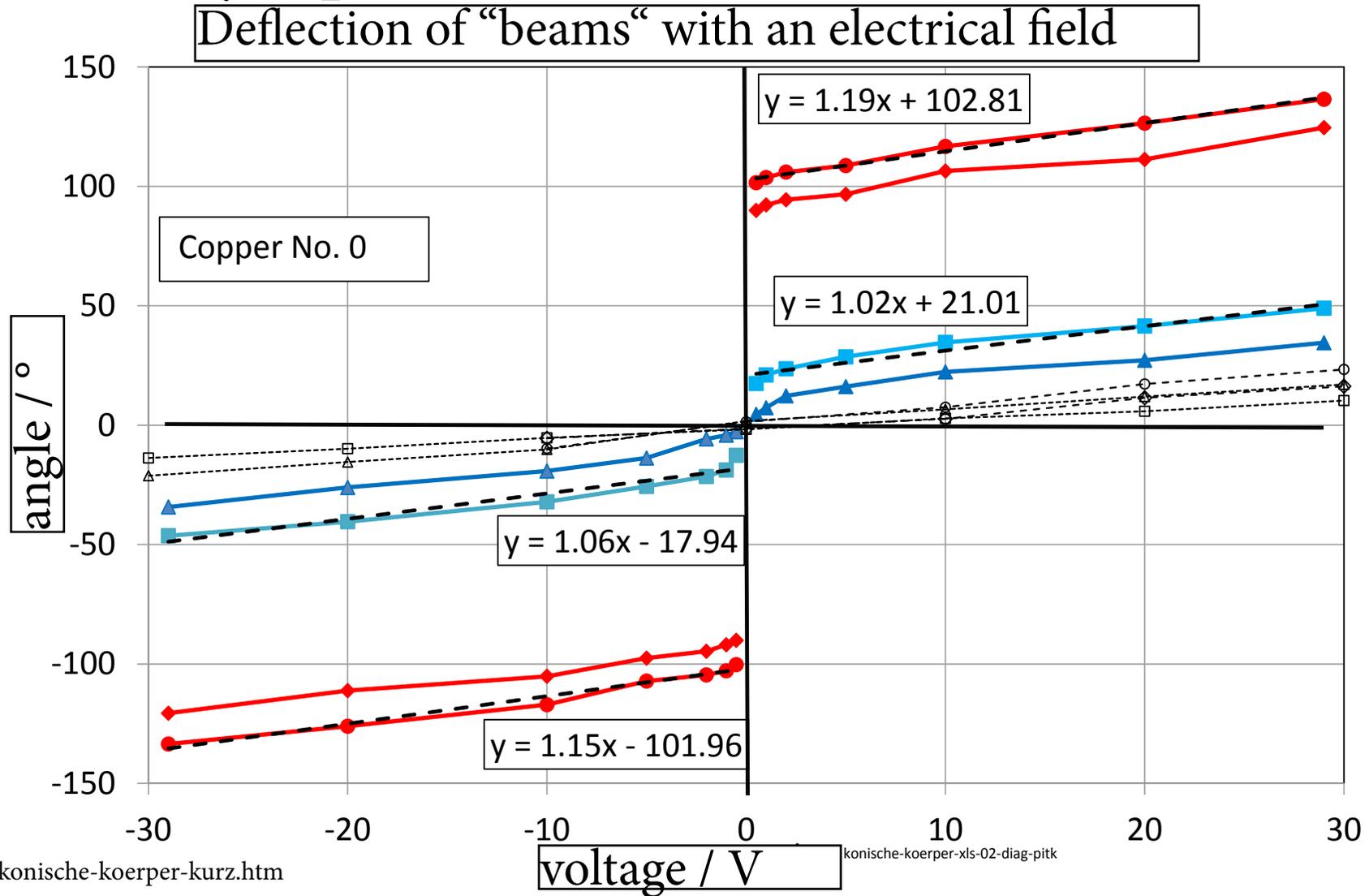
biosensor/konische-koerper-kurz.htm

3.4 Novel key experiment



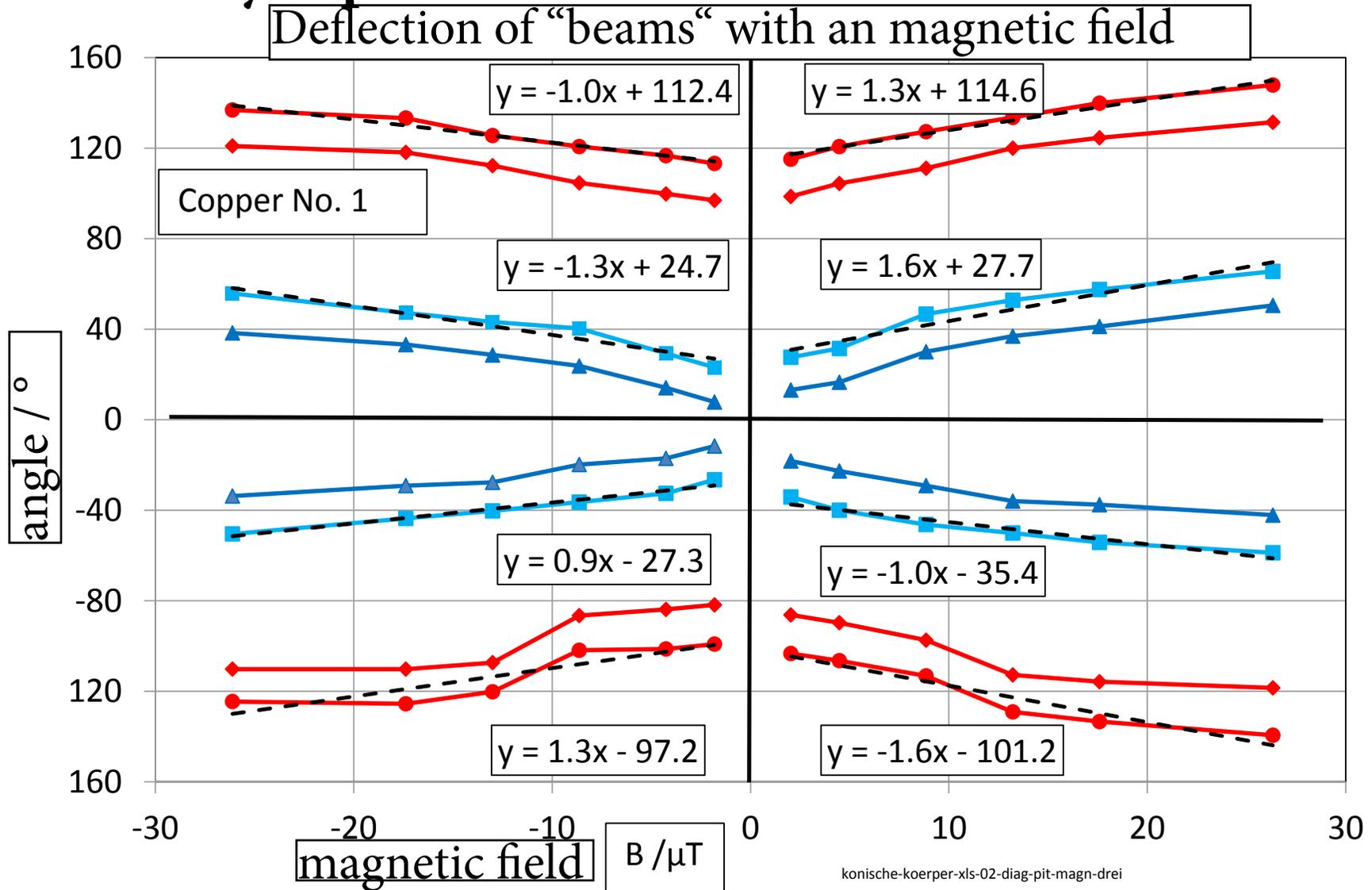
“Spectrometer” in a garden:
marking of the various “beams”

3.4 Novel key experiment



- There are two "beams".
- As the field increases, the deflection angle increases.

3.4 Novel key experiment



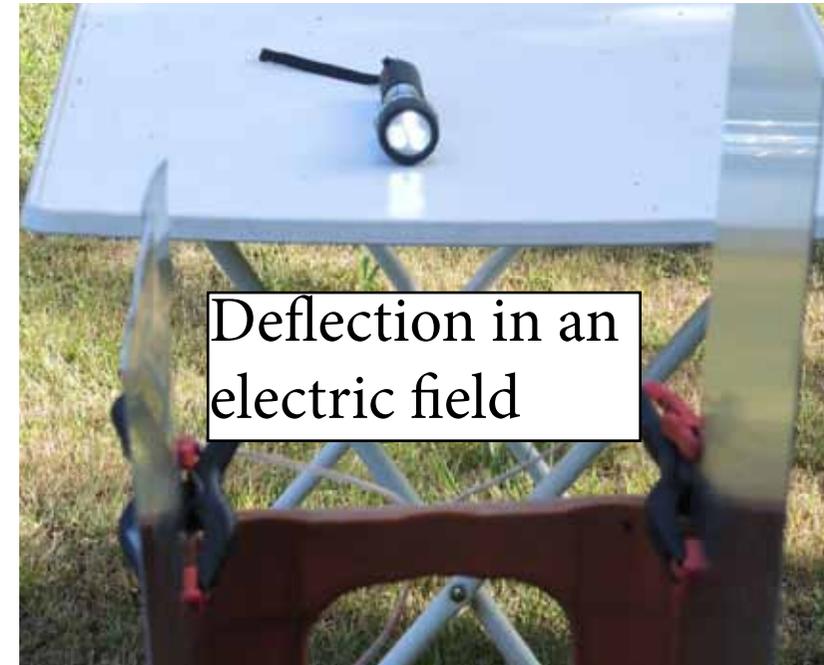
- There are four "beams".
- As the field increases, the deflection angle increases.

3.4 Novel key experiment

LED lamps give rise to phenomena similar to those observed with contour generators. In addition to the “light”, some form of “beams” can be observed at the front and at the rear of the LED lamp. These “beams” behave in a manner similar to that observed with conical bodies.



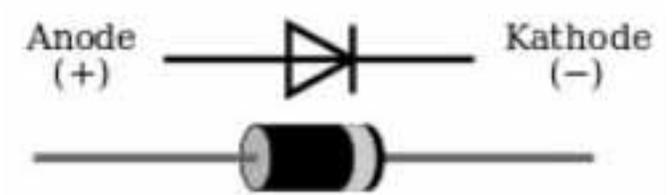
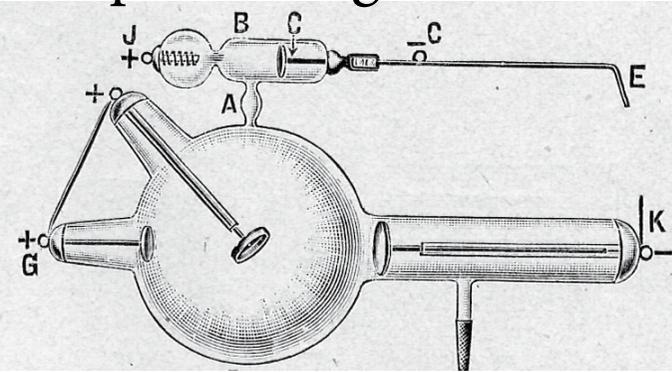
These invisible “beams” can also be deflected in an electric or magnetic field!



3.5 Possible cause: bremsstrahlung

Charged particles are accelerated by an electric potential gradient and then suddenly decelerated.

Negative anode potential / volts



Accelerator*

X-ray machines,*
cathode-ray tubes
(television picture tube)*

fluorescent lamps,
economy lamps

LED light-emitting
diodes

Diode rectifiers

1000 000

100 000

10 000

1000

100

10

1

unrecognized
effects

??

??

??



* Known sources of bremsstrahlung

https://upload.wikimedia.org/wikipedia/commons/thumb/d/da/Diode_pinout_de.svg/220px-Diode_pinout_de.svg.png

3.5 Possible cause: bremsstrahlung

“Bremsstrahlung is the electromagnetic radiation which is generated when the momentum of a charged particle, such as an electron, is changed. The fundamental physical principle involved here is the fact that the absorption or emission of electromagnetic radiation is associated with every change in the velocity of a charged particle.”

<https://de.wikipedia.org/wiki/Bremsstrahlung>

Analogous example from kinematics: motor vehicle with unsecured load: During a braking manoeuvre, acceleration, or travel through a curve, an unsecured load can become detached and act as a projectile.



3.5 Fields with rotating components



Helical economy lamp

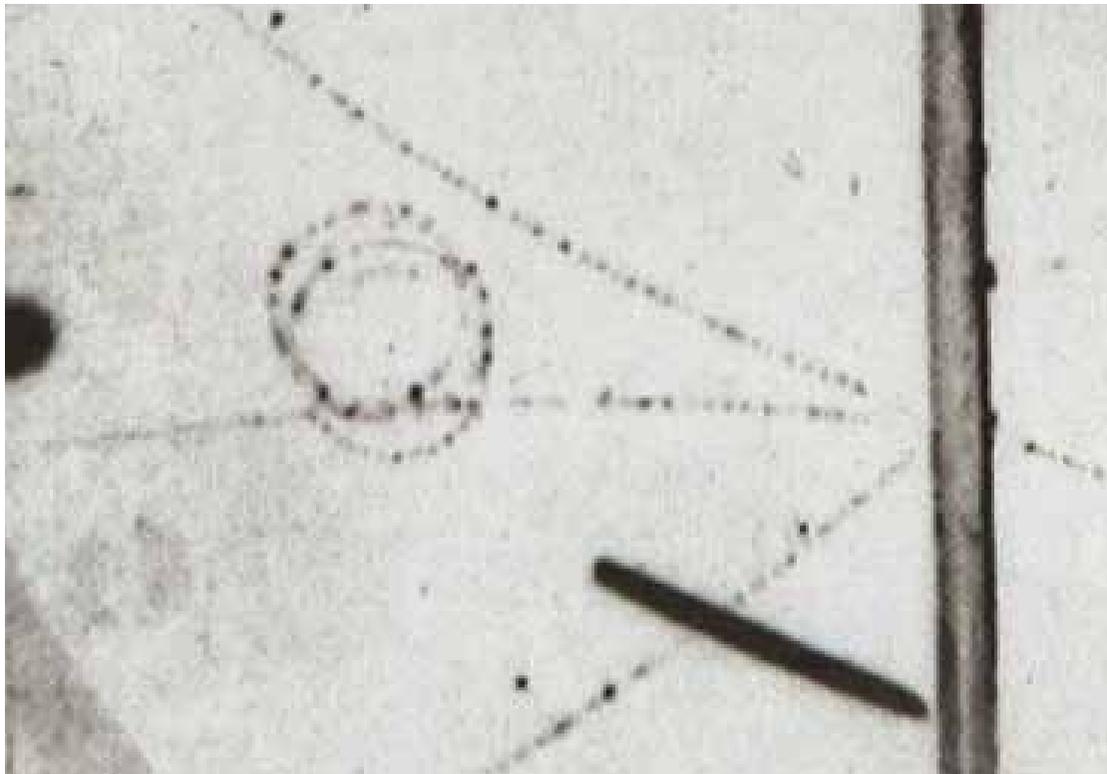
The glass tube describes a helical path for the gas-discharge current. The direction is reversed at the mid-point of the tube.

Such a thing does not occur in nature.

- **Bremsstrahlung** is generated by the circular acceleration and by the impingement of the charged particles on the electrodes..
- **Electric and magnetic fields with rotating components are present.**

3.5 Particle radiation with conical bodies and LED lamps

Which particles constitute the observed structures



Cloud-chamber photograph:

Traces of particles from
cosmic radiation

Since the particles move in a circular path in a magnetic field, they must be **charged**.

In our experiments, the particles can be deflected by an electric or magnetic field. Hence, they **must be charged**. However, since they also penetrate an aluminium plate, they **cannot be electrons or ions!**

Atlas typischer Nebelkammerbilder
(Atlas of Typical Cloud-Chamber Photographs)
1940 (Gentner et al.)

3.5 Candidates for charged particles

Drei Generationen der Materie (Fermionen)

	I	II	III		
Masse →	2,3 MeV	1,275 GeV	173,07 GeV	0	125,09 GeV
Ladung →	$\frac{2}{3}$	$\frac{2}{3}$	$\frac{2}{3}$	0	0
Spin →	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	1	0
Name →	u up	c charm	t top	γ Photon	H Higgs Boson
Quarks	4,8 MeV $-\frac{1}{3}$ $\frac{1}{2}$ d down	95 MeV $-\frac{1}{3}$ $\frac{1}{2}$ s strange	4,18 GeV $-\frac{1}{3}$ $\frac{1}{2}$ b bottom	0 0 1 g Gluon	
	<2 eV 0 $\frac{1}{2}$ ν_e Elektron-Neutrino	<0,19 MeV 0 $\frac{1}{2}$ ν_μ Myon-Neutrino	<18,2 MeV 0 $\frac{1}{2}$ ν_τ Tau-Neutrino	91,2 GeV 0 1 Z⁰ Z Boson	
	0,511 MeV -1 $\frac{1}{2}$ e Elektron	105,7 MeV -1 $\frac{1}{2}$ μ Myon	1,777 GeV -1 $\frac{1}{2}$ τ Tau	80,4 GeV ± 1 1 W[±] W Boson	Eichbosonen
Leptonen					

It is entirely possible that **myons, tauons, pions, and kaons** also occur at lower energy, not only in cosmic radiation or in accelerators (CERN).

During our experiments with conical bodies, the main source of excitation was sunlight.

As indicated by these experiments, the particles form clear-cut and stable structures in the surrounding medium and are therefore detectable.

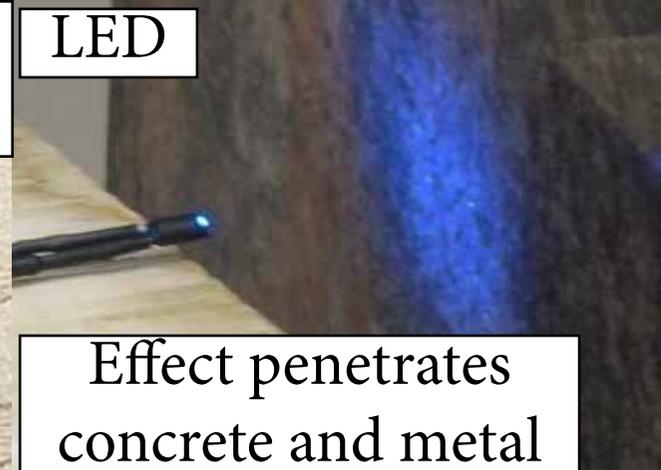
Standard model in particle physics

https://de.wikipedia.org/wiki/Datei:Standard_Model_of_Elementary_Particles-de.svg

- Our experimental results indicate the existence of at least four kinds of **“subtile” matter**.
- **Technical devices** exert influence on subtile matter. They can **change its form and induce oscillations**.
- The oscillations induced in the structures **act on the human body** and create a need for constant regulation.
- Living organisms with biological sensors can perceive these structures **subconsciously or consciously**.
- Every change acts as an **alarm signal** for the human body. However, the incessant repetition of alarms can cause undue stress, which is harmful to health.
- The experiments with electric and magnetic deflection may prove to be useful for **investigating elementary particles** without the need for expensive equipment.
- The relationships between **wave – particle - radiation – zones** urgently require further research as well as an explanation which is supported by experiments.

4. Conclusions

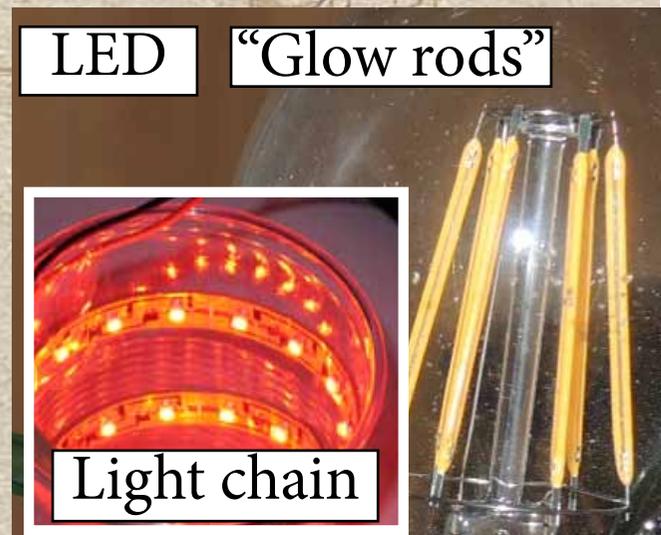
LED



Effect penetrates concrete and metal

LED

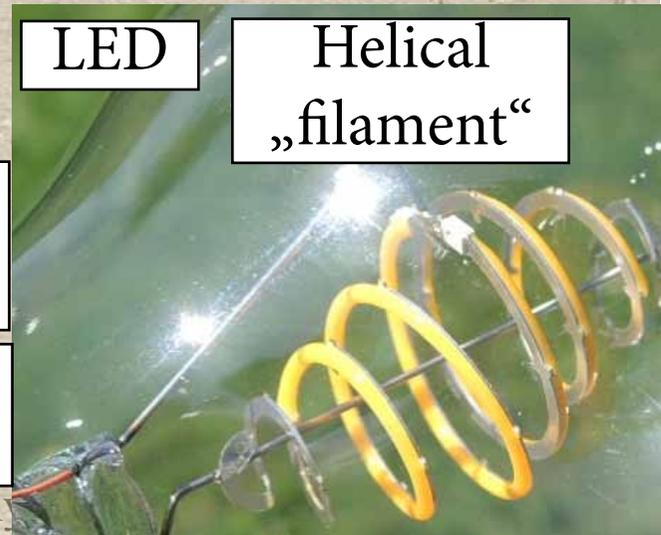
“Glow rods”



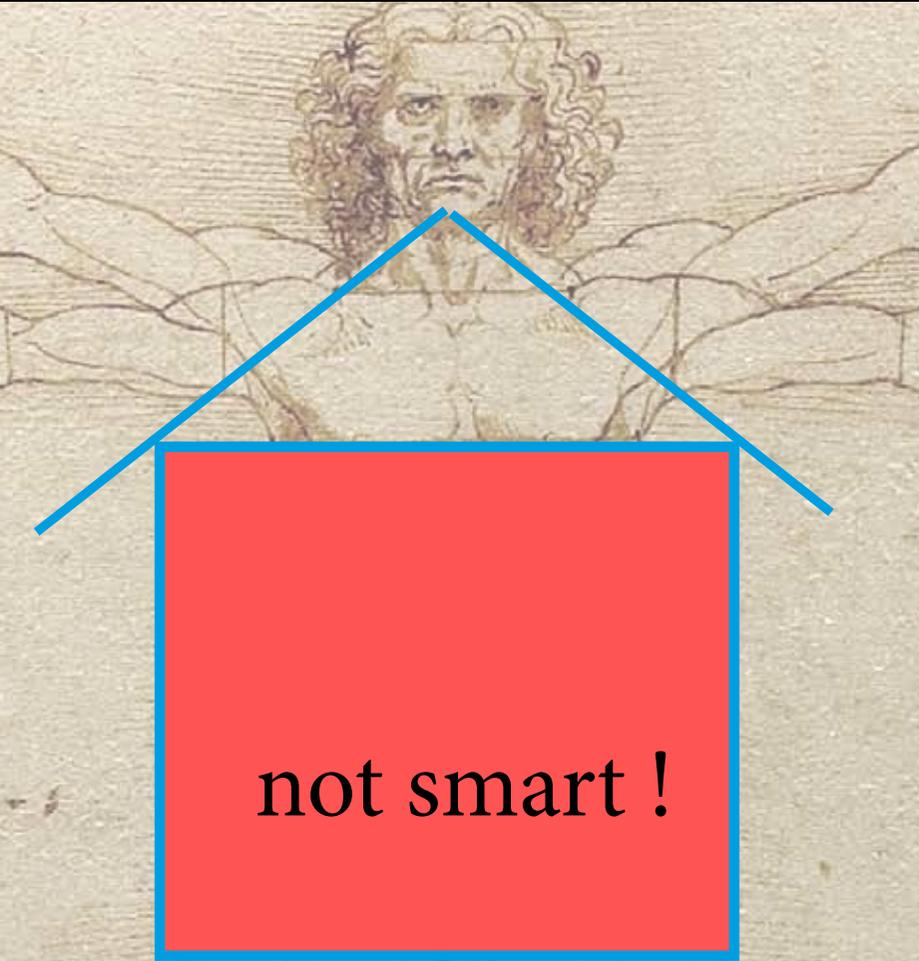
Light chain

LED

Helical „filament“



DECT / WLAN and flowing water



not smart !

Electrical or electronic devices over aquifers or faults

Electric and magnetic fields with rotating components

Helical economy lamp



Pyramids, edges, sharp points





**The author wishes to thank the
Forschungskreis für Geobiologie for financial support.
I also wish to express my special thanks to the
participants in the experiments and discussions.**

Thank you for your attention.

Further information available at: www.biosensor-physik.de