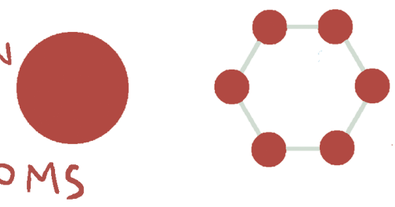
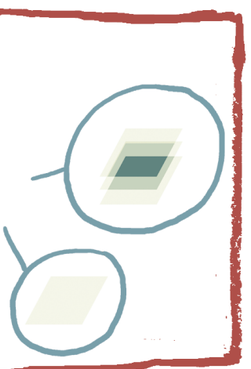
NOBEL PRIZE 2010

GRAPHENE

GRAPHENE IS COMPOSED OF HEXAGON SHAPED CARBON'S ATOMS



GRAPHENE EXISTS IN ITS NATURAL STATE IN GRAPHITE

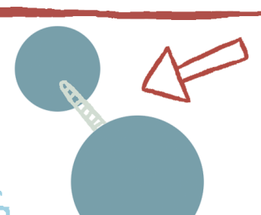


IT IS THE THINNER MATERIAL EXISTING: ONLY 1 ATOM THICK.

YOU CAN OBTAIN DIAMOND

AS WELL AS COAL

THE LINKS BETWEEN ATOMS ARE STRONG



ON FRIDAY EVENING, THEY LEVITATE FROGS INSIDE A MAGNETIC FIELD

THEY HAVE BEEN REWARDED AN IG NOBEL WHICH IS A PRIZE REWARDING SERIOUS BUT CRAZY WORK.

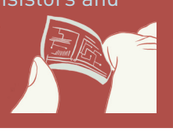
THEY USED GRAPHITE MADE OF LAYERS OF GRAPHENE. THE CONNECTION OF THE ATOMS BETWEEN THESE LAYERS ARE NOT VERY STRONG : NOVOSELOV AND GEIM WERE ABLE TO ISOLATE AND MEASURE ONE LAYER OF GRAPHENE

THEY USED SCOTCH TAPE TO ISOLATE GRAPHENE'S LAYERS.

IT IS FIRST A FUNNY SCIENCE AND THEN A THOUGTFULL ONE. THEY WERE REWARDED SOON AFTER THEIR DISCOVERY WHICH IS QUITE UNCOMMON.

The strange behavior of the electrons inside the graphene opened a new field of research.

Technological revolutions may depend on it. The graphene may replace transistors and maybe revolutionnize the electronics and computers



I am André Geim and I was born in octobre 1958. I am a dutch physicist from Russia. I studied in Moscow, then in England and in Danmark. Afterwhats I became assistant professor in Netherlands. In 2001, I became the director of «the Manchester Centre of Neuroscience and Nanotechnology». I am the only one physicist to have the Ig Nobel for making frog levitate and the Nobel Prize with the graphene.

NOBEL PRIZE

The Nobel Prize in Physics 2010 was awarded jointly to Prof. Andre Geim and Prof. Konstantin Novoselov «for groundbreaking experiments regarding the two-dimensional material graphene»

My name is Konstantin Novoselov. I was born on august 23rd, 1974. I'm a Russian-British physicist. I got my PhD degree in Netherland supervised by Andre Geim. Later I worked with him in Manchester. I was knighted in 2011 for my work in science as well as for my collaboration with Andre Geim wich lead to the discovery of the graphene in 2004. This discovery was rewarded by the Nobel Prize in Physics in 2010. I was only 36 !

GRAPHENE