

Superconductors

Date

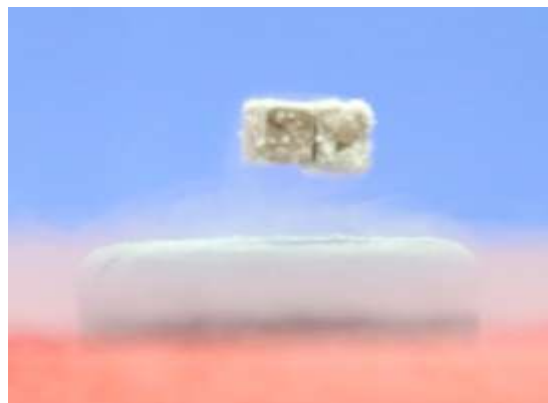
Wednesday,
28th of October, 2009

Time

10.00 am

Room

Seminar-Room T1
Room-Number 1.3.21



- Superconductors are common materials in today's science.
- Some research Groups of the physic department at the FU are exploring superconductors
- About 100 years after its discovery the enthusiasm is not decreased.

Superconductors are a very interesting phenomenon. Resistance is futile – an electric current can run through a solid without being stopped. Therefore we have to reach really low temperatures.

But by the time some ceramics showed superconductive properties at quite high temperatures.

How is it possible for a current to run through a solid without resistance? Why do we need low temperatures? What's interesting in this science today?

The speech will give an answer to this main question (and a few more).

I invite you to take part on this talk that goes into the nano-structure of a cooled-down solid, where the common solid-body-physics are not longer valid.