



FACULTY OF
SOCIAL STUDIES

Masaryk University

Ways to increase the density of information recording in magnetic film

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Mnatsakanov Anton

Discovery and development of magnetic recording

Waldemar Poulsen

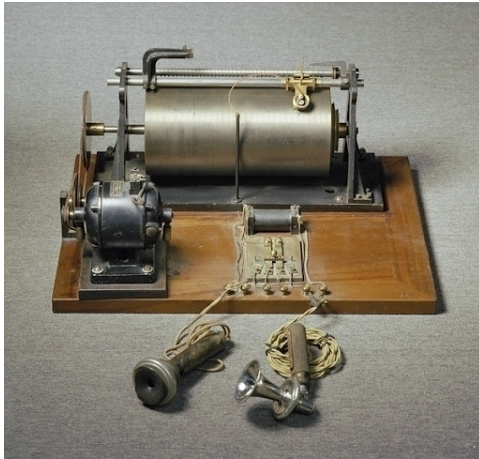
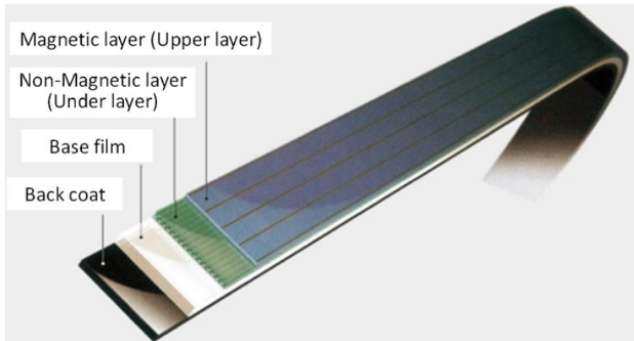


Figure: The first magnetic recording device.

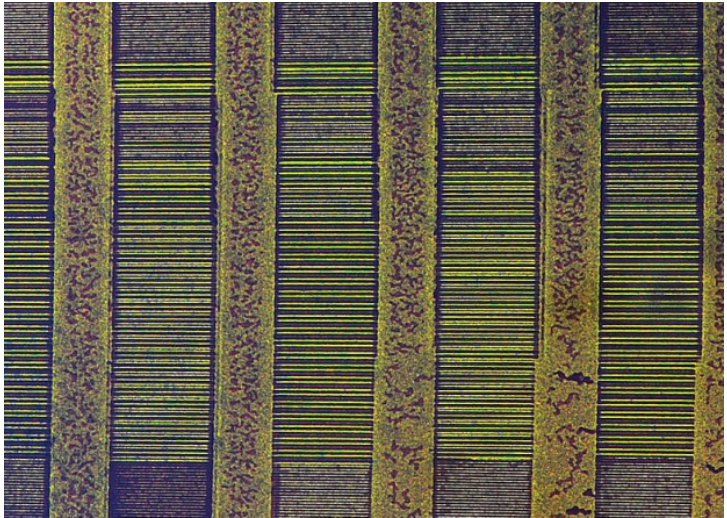
The structure of the layers of magnetic tape.



Layers materials



Magnetic bits in a floppy disk



New developments

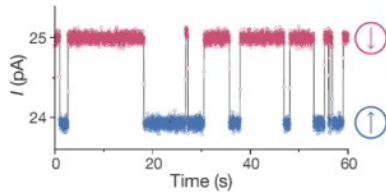
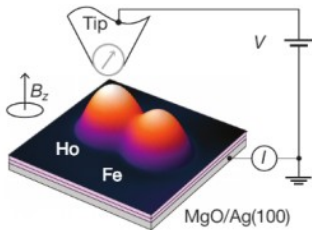
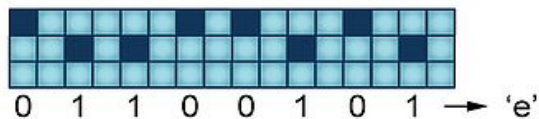


Figure: Scheme of the experiment (left). Reading the states of atoms (right).



■ regular block

■ start of line

■ end of line

■ end of file

■ broken block

■ broken & start of line

Figure: The principle of coding information

- [1] <https://habr.com/ru/post/422851/>
- [2] <https://nplus1.ru/news/2017/03/09/information-density-record>
- [3] II International Scientific Practical Conference of graduate and postgraduate students, lecturers «APPLIED ISSUES OF EXACT SCIENCES» 19-20 October 2018, Armavir([http://amti.esrae.ru/pdf/2018/3\(1\)/197.pdf](http://amti.esrae.ru/pdf/2018/3(1)/197.pdf))
- [4] <https://compress.ru/article.aspx?id=10717part=31ext1>
- [5] <https://compress.ru/article.aspx?id=10717>
- [6] <https://aip.scitation.org/doi/10.1063/1.1953879>
- [7] Heat Assisted Magnetic Recording

Thanks for Your attention!
