

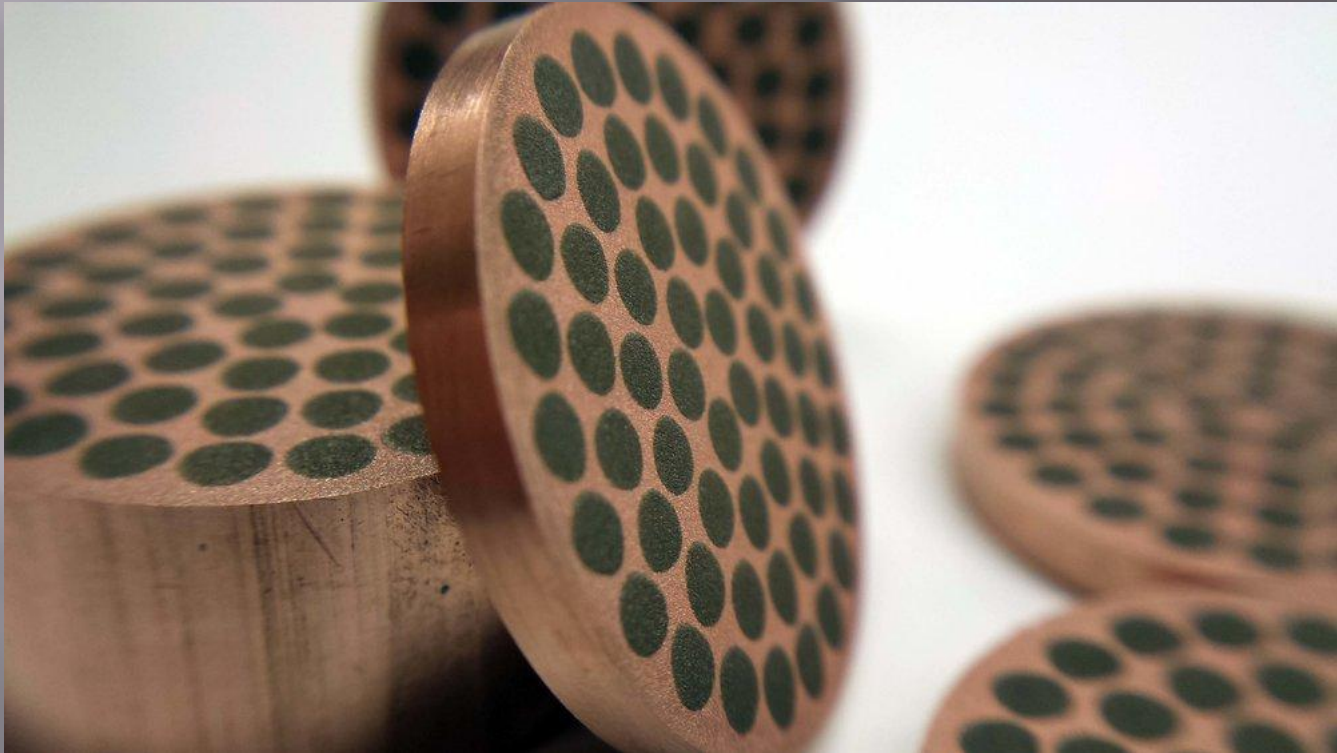
SUPERCONDUCTIVITY IN ENERGY

Korolev Yakov,
IU8-43

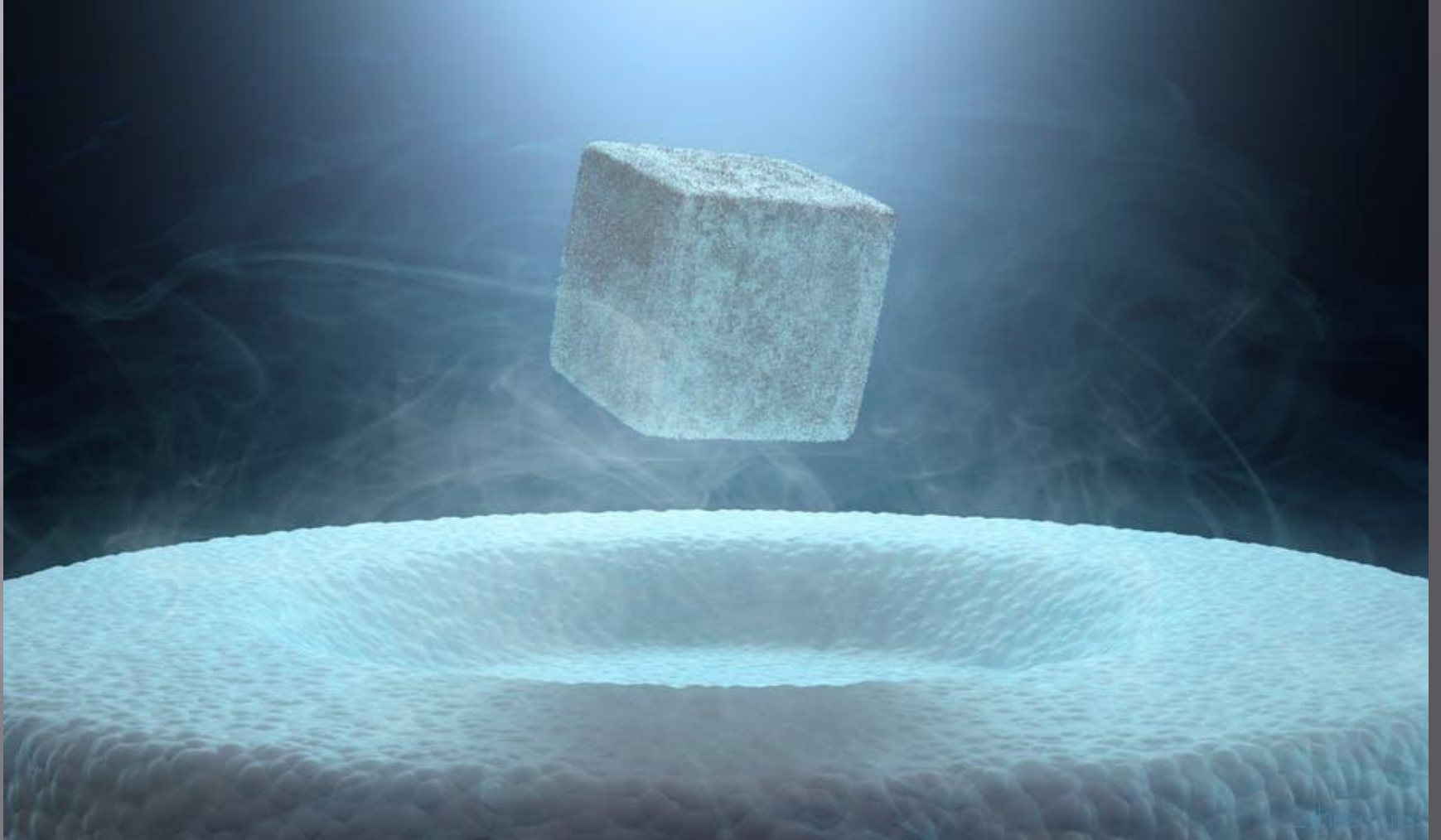
Introduction

- ▣ 1) Superconductor
- ▣ 2) The use of superconductivity

Superconductors



Meissner effect



The use of superconductivity

- ▣ 1) Superconducting magnets
- ▣ 2) Generators
- ▣ 3) Cables
- ▣ 4) Electric power storage
- ▣ 5) Electric motors, transformers and spaceships
- ▣ 6) The trains

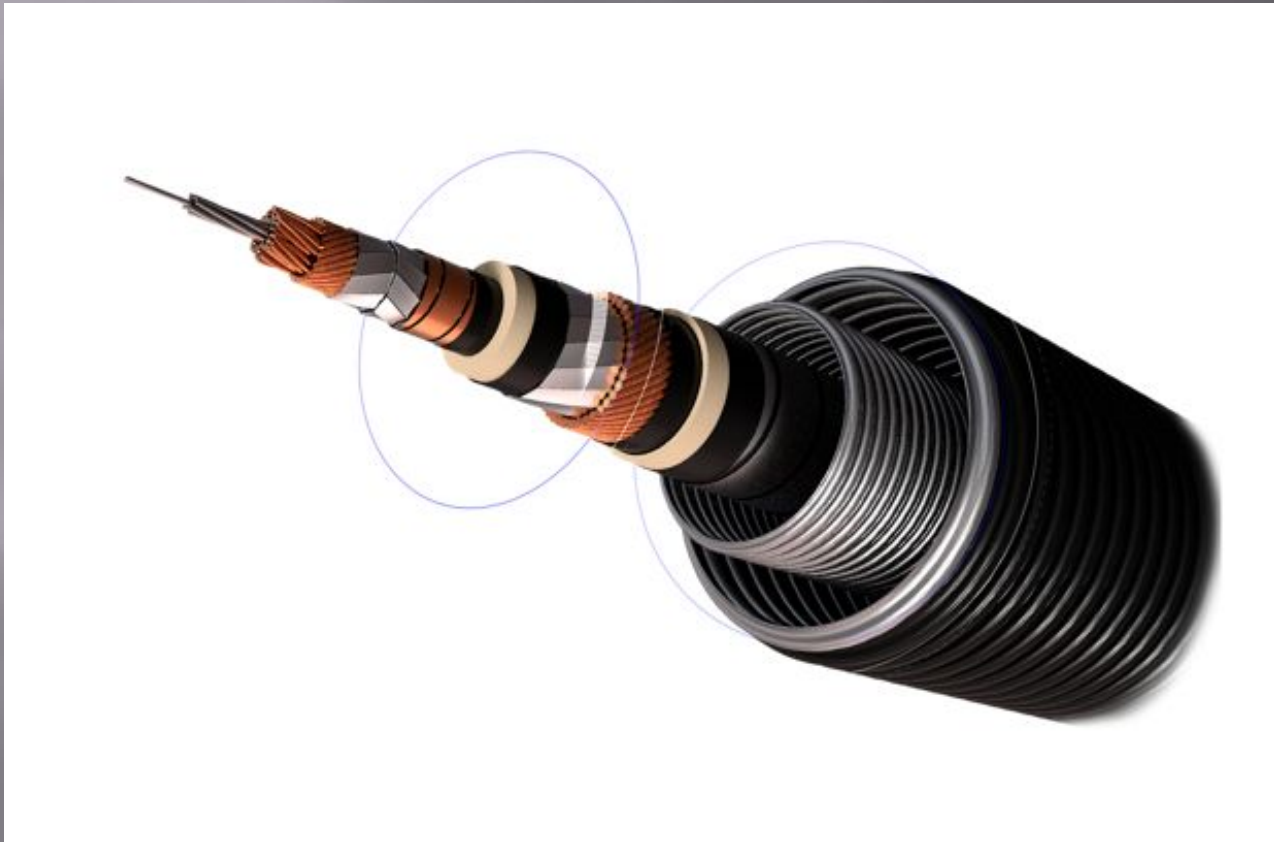
Superconducting magnets



Generators



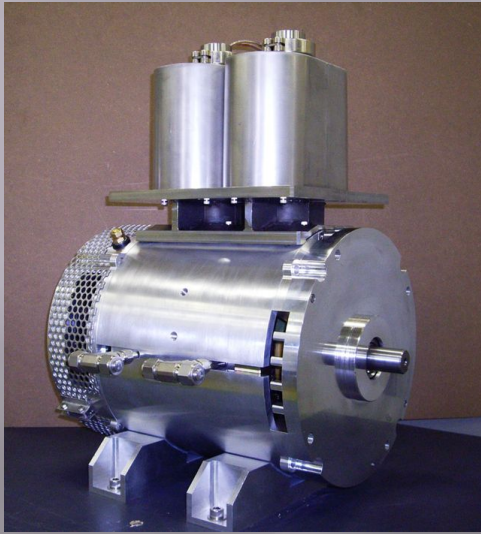
Cables



Electric power storage



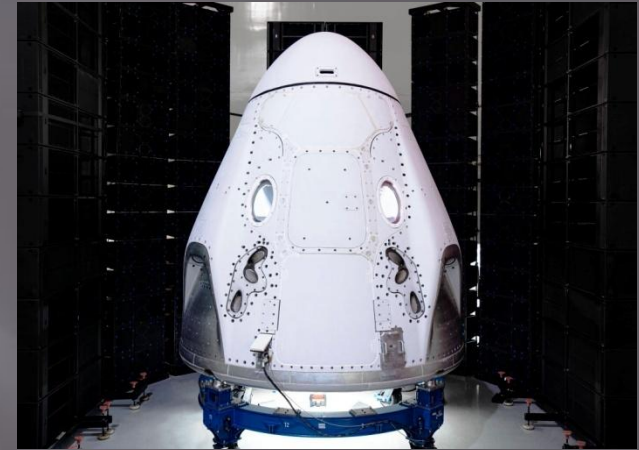
Electric motors, transformers and spaceships



Motor



Transformer



Spaceship

The trains



Links to information resources

- ▣ 1) http://physics.bsu.by/sites/default/files/files/departments/Energy/TEMPUS/EEM_course/Lectures/Energy%20effective%20materials%20-%20lecture%2010.pdf
- ▣ 2) <https://pue8.ru/elektrotekhnik/624-nekotorye-aspekty-primeneniya-vysokotemperaturnykh-sverkhprovodnikov-v-energetike.html>
- ▣ 3) <https://neftegaz.ru/science/Energetika/332038-vysokotemperaturnaya-sverkhprovodimost/>

Thanks for attention