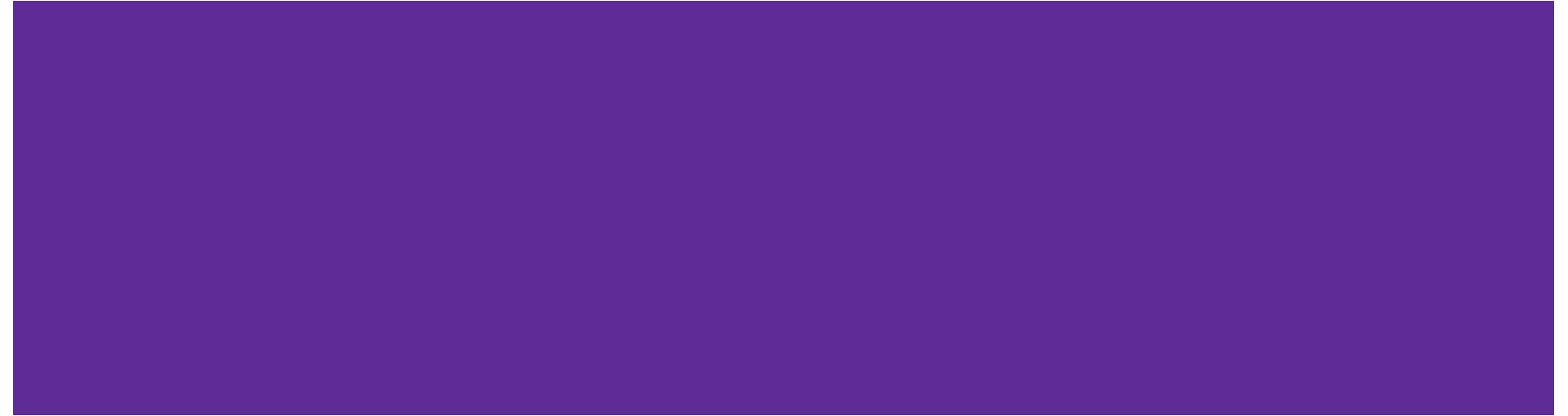


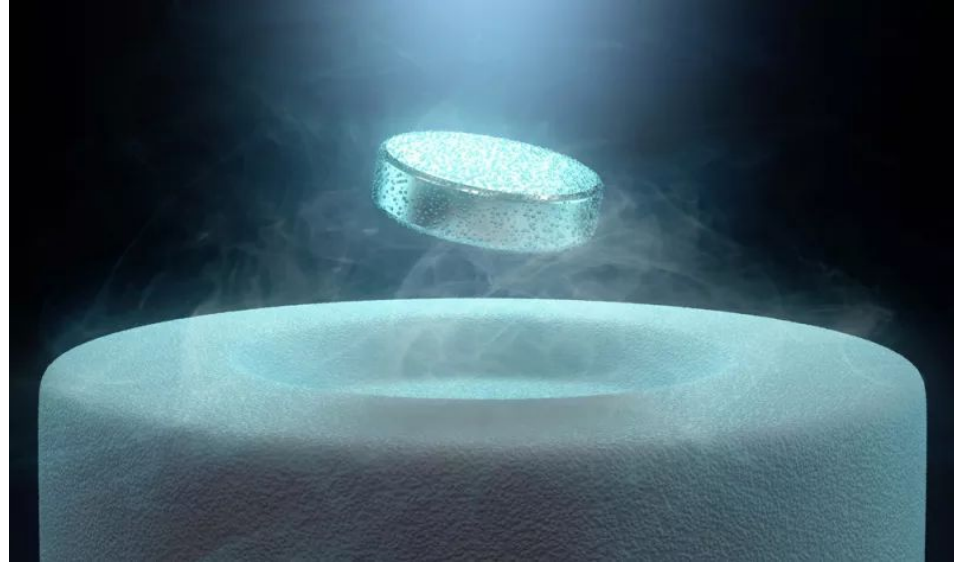
SUPERCONDUCTORS

By Benjamin Jirasakulpeeti and Vishnu Sivakumar



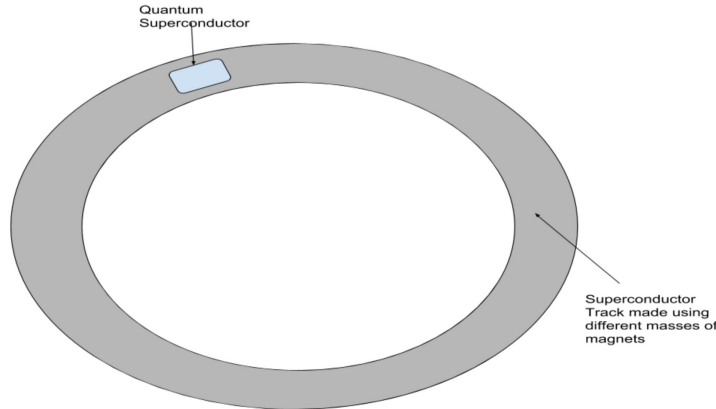
What are Superconductors?

- Superconductors are substances that are able to super conduct when at sufficiently low temperatures
- To super conduct means to conduct electricity without any resistance
- As a result, superconductors are able to conduct electricity more efficiently and levitate when present with a strong magnet

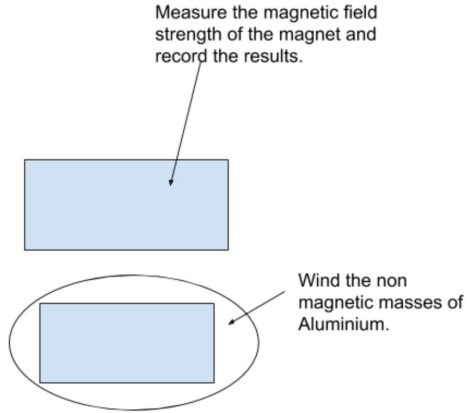


Our Investigation

- Is mass of the magnet directly proportional to the field strength?
- How does height of levitation of superconductor change due to the force acting upon it?

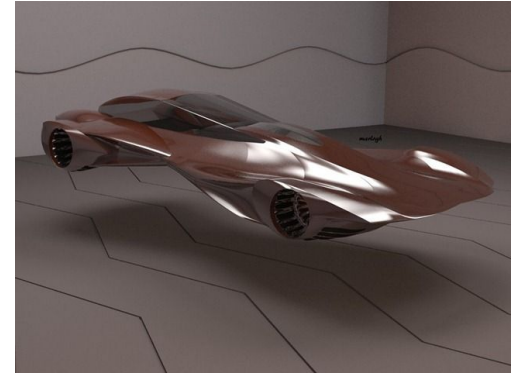


Use a magnetometer to measure strength of the magnets.

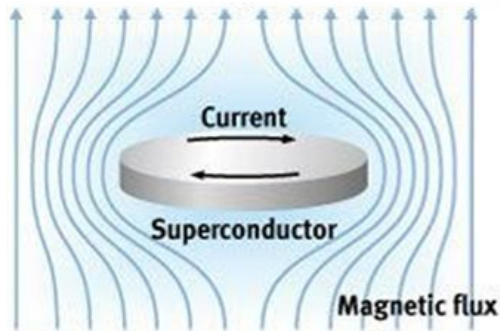


How can our Investigation Benefit Humanity?

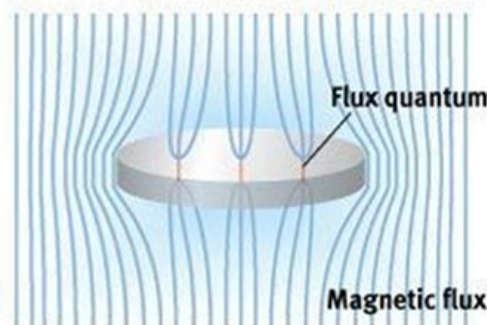
- Levitating trains
- Hoverboards
- Advancing cars and bikes



MEISSNER EFFECT



QUANTUM LOCKING



References

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- <http://www.explainthatstuff.com/superconductors.html>
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