

# E High-temperature superconductors wandering in a magnetic field labyrinth

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- Number of Participants: 4
- Implementation Period: 2<sup>nd</sup> Semester, Days and times to be discussed
- First Class Start Date and Time: October 6<sup>th</sup> (Tue) 16:40
- Location: EIKE Building 2, F1, Room 101

## Overview

- ❑ Superconductors possess the unique property of being able to stably levitate above a permanent magnet without any control mechanism.
- ❑ Superconductors levitating above a permanent magnet exhibit a peculiar behavior: they move smoothly in one direction, but remain completely still in another direction, as if an "invisible wall" exists.
- ❑ In this training, you will learn the fundamentals of the electromagnetic properties of superconductors through the creation and experimentation of a "magnetic field maze" that restricts the direction of superconductor movement using a permanent magnet.

