2021 TJPhO Solutions

Name(s)

Team Email

Team Number

April 7 - 10, 2021

1 Background Problems

Electric and Magnetic Fields

1 If you wish, you can copy the question text here (and in subsequent problems).

Solution.

- a) Write your solutions inside these kinds of environments.
- b) Use the enumerate environment for multi-part problems

Conductors

Circuits

Diamagnetism

Magnetic Dipoles

Meissner Effect

2 Applied Problems

Cooling Superconductors

Magentic Resonance Imaging (MRI) Machines

Superconducting Qubits

Particle Accelerators

3 BCS Theory

Quantum Statistics

Cooper Pairs