

Lab 5: Resistivity

Challenge

Find the resistivity of the slide wire resistor. Estimate the power per unit length used to heat the slide wire resistor at different source currents. Determine the resistivity of two other wires.

Available Materials

Slide wire resistor	Calipers
LoggerPro ammeter	Power source
LoggerPro voltmeter	Wires

Lab report considerations

In addition to other graphs and charts, you must have these two plots: V vs I and V/I vs length. These graphs will greatly help your analysis of resistivity. **Remember to use error propagation for your value of resistivity.** Compare your numbers to published resistivity values.

Teacher signatures

Please get your TA to sign off on your experimental plan, the pre-lab equipment practice, and the completion of the lab. These signatures will be worth 4% of the lab grade and will help to promote a successful experience.



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