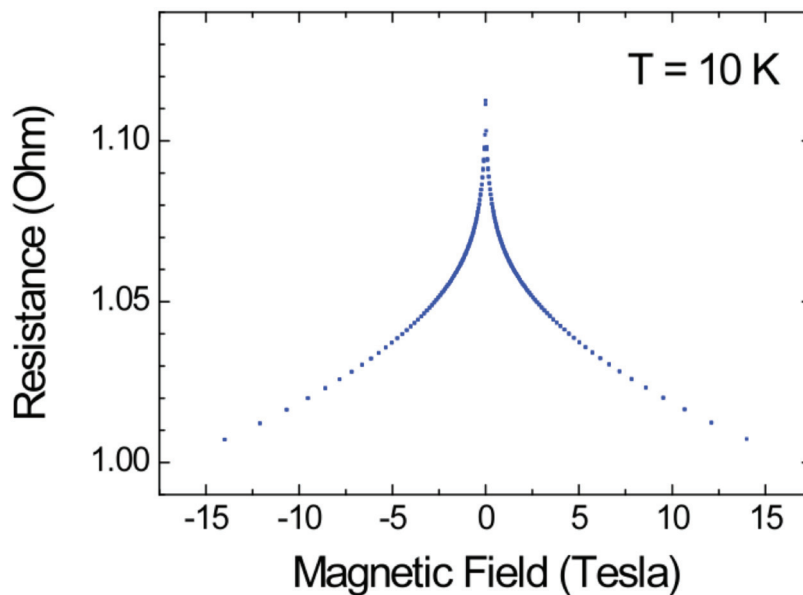


Resistivity and Hall Effect

Measurement Data

Magnetoresistance

System	Cryogen-Free measurement system, 14 Tesla
Description of measurement	4-terminal resistance measurement using Keithley 2400 Source meter and Keithley 2182A Nanovoltmeter
Excitation current	1 mA
Variation of magnetic field	Stepwise, increased step size at high field
Sample	Magnetic thin film Data courtesy of Dr I.Orue, University of Bilbao
Sample	Magnetic thin film
Data courtesy of Dr I.Orue, University of Bilbao	< 0.01%



Resistivity and Hall Effect

Measurement Data

Current-voltage characteristic

System	Cryogen-Free measurement system, 14 Tesla
Description of measurement	4-terminal resistance measurement using Keithley 2400 Source meter and Keithley 2182A Nanovoltmeter
Measurement protocol	At each value of current, take measurements at normal and reversed polarity, then average
Sample	Standard resistor with superconducting current terminals from Cryogenic Ltd Nominal value 1.3 microOhm

Measurements of very low DC voltage is only possible by using reversing polarity. Otherwise the signal is dominated by thermal voltages rendering the measurement inaccurate.

