

Physics 111B Lab 1
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JOS - Josephson Junction

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Abstract

The Josephson AC and DC Effect is a quantum mechanical effect that occurs when 2 superconductors come in contact with some insulating material connecting each other in their superconducting state (at extremely low temperatures), such that the electrons across the insulating material are coupled together and create supercurrents. This experiment focused on measuring the AC and DC effect once we were able to do so we were able to use our data from the AC effect to calculate $2e/h$.

Introduction

Superconductivity conducts electricity without any resistance at low temperatures. In 1962 David Josephson predicted pairs of electrons, now known as Cooper pairs, can quantum tunnel/travel across a gap separating two superconducting materials without applying a voltage [1]. The *supercurrent* created is known as the DC Josephson Effect; he also predicted that an AC supercurrent can also be observed by applying small amounts of voltage.

The DC and AC effect stem from quantum mechanical properties of superconductors that predict the flux quantization and its dependence on the phase difference between the superconductors [2]. Observing the Josephson Effect was a major breakthrough in Physics as it allowed for a precise measurement of $2e/h$ along with applications in measuring weak magnetic fields [3].

In this lab we focused on observing the DC and AC Josephson effects. We then used the data collected from the experiment to make an accurate calculation $2e/h$. Throughout this paper I will go over the theory behind the Josephson Effect, the experimental procedures of measuring the AC and DC Josephson Effect, and an analysis of the data along with my measured value for $2e/h$.

Theory

As aforementioned, the theory behind the DC and AC Josephson Effects can be described by quantum mechanics. The wave function for a superconducting state can be described by

$$\psi = \psi_0 e^{i\theta}$$

$\theta = \text{phase factor}$

Equation 1 Wave function for a superconducting state

where θ is the phase factor of the state [2]. It is important to note that when the gap separating the two superconducting material approaches 0 then the cooper pairs tunnel across the barrier. Thus coupling the two wave functions for each superconducting material and treating everything as one system such that a supercurrent that flows across the barrier is created with 0 resistance. *Figure 1* shows the different wave functions created by two superconducting materials.

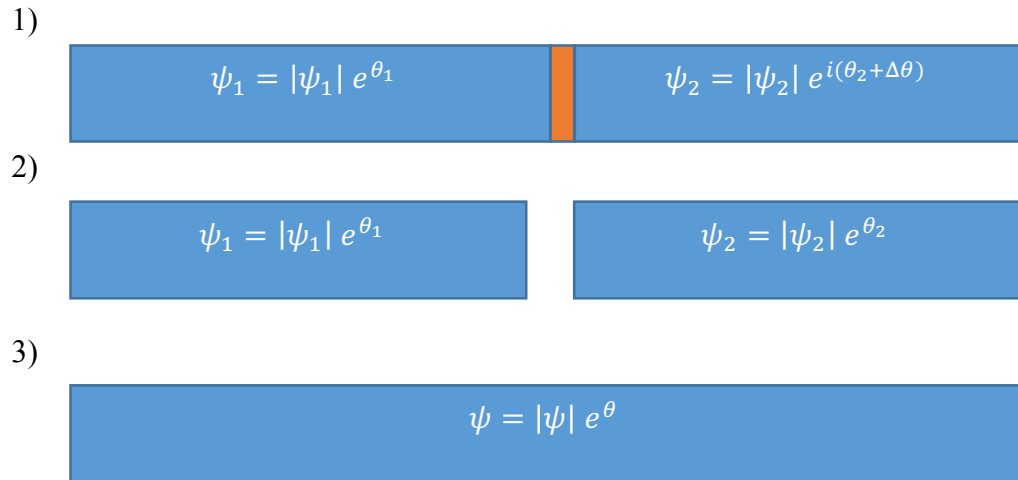


Figure 1 shows the wave function for: 2 superconducting material separated by some insulating material (1), two separate superconductors(2), and one superconductor(3). This image was inspired from an image in [3]

We observe the two wave functions for the two superconductors coupled together when an insulating material is placed in between and we can consider the system as a single superconductor. Once the two systems have become “*phase locked*” [3] due to the high coupling energy created by reducing the gap distance, we are able to observe the DC Josephson Effect as the cooper pairs begin to tunnel across the barrier without any applied voltage [3].

$$J = \frac{\hbar}{m} \left(\nabla \theta - \frac{q}{c\hbar} \mathbf{A} \right) |\psi|^2$$

J = Current Density

m = mass

\hbar = plancks constant

A = magnetic vector potential

$|\psi|^2$ = density of electrons

q = charge

c = speed of light

$$\frac{Jmc}{q|\psi|^2} + A = \frac{\hbar \nabla \theta c}{q}$$

Equation 2 Current density formula.

By rewriting the equation for current density Eq. (2) we are able to solve for the phase factor in terms of magnetic vector potential and current density [2]. Since the phase factors across the two super conductors must be phase locked at discrete values we can use the following integral, eq. (3) to describe the *phase factor*. We note that q in eq. (3) represents the charge of the cooper pairs, ie 2e.

$$\oint \nabla \theta \cdot dl = 2\pi n$$

$$\oint \left(\frac{Jmc}{q|\psi|^2} + A \right) \cdot dl = \frac{\hbar \nabla \theta c 2\pi}{q} = \frac{n\hbar c}{q}$$

$$\oint A \cdot dl = \int B \cdot ds$$

$$\int B \cdot ds + \frac{mc}{2e|\psi|^2} \oint J \cdot dl = \frac{n\hbar c}{2e}$$

$n = 0, +/-1, +/-2, +/-3 \dots$
 $e = \text{electron charge}$
 $q = 2e$

Equation 3 Phase Factor derivation of applying equation 2 to the integral. This derivation comes from [2]

Equation 3 therefore allows us to verify the DC Josephson effect by showing that it is possible to have a current (supercurrent) travelling across the superconductors even when the voltage is 0. This is all under the condition that the systems magnetic flux is equal to $\frac{n\hbar c}{2e}$ [2].

The DC effect allows us to measure the critical current which is the maximum current the system can have without applying a voltage. Nonetheless to observe the AC effect the current flowing across the two superconductors must be greater than the critical current. Once this occurs the we are able to see a voltage steps due to the time dependence (*equation 4*) created on the phase difference [3]. Using the fact that the cooper pairs are emitting and absorbing photons, Josephson was able to use Einstein's equation from the photoelectric effect relating frequency and energy to predict the AC Josephson Effect [3,2].

$$\hbar \frac{d\Delta\theta}{dt} = 2eV_0$$

Equation 4 Phase difference time dependence. Got equation from [2]

$$\Delta\theta = \int \frac{2eV_0}{\hbar} dt$$

$$\Delta\theta = \frac{2eV_0 t}{\hbar} + c$$

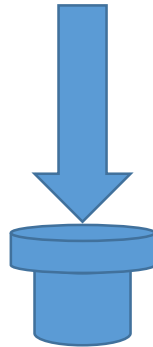
Equation 5 Proof of Alternating Current

By integrating *equation 4*, we are able to see that the supercurrent created by the AC Josephson effect has a frequency of $\frac{2eV_0}{\hbar}$ and proof that we have an alternating current (*Equation 5*).

Apparatus and Procedure

The experiment relies on a four wire voltage and current measurements across a point-contact junction to observe the rise of the DC and AC Josephson effect. The Josephson Effect studies the supercurrent created across a Niobium needle sharpened to 45 ° in contact with a Niobium Screw Figure 2.

Niobium Needle



Niobium Screw

Figure 2 Niobium Needle in contact with a Niobium screw to study the Josephson Effect

In this case the insulating layer separating the two superconductors is an oxidization layer that forms on the Niobium needle when left out overnight. The oxidization layer is an essential part to the experiment because if the layer is too thin then the two superconductors will come in contact and create a short but if it is too thick then the cooper pairs will not have enough energy to create a super current [2]. This can be challenging because the only way to study the AC and DC Josephson effect is in low temperatures such that the material in our case Niobium is able to reach its superconducting state where the system exhibits 0 resistance. Therefore, the entire junction must be placed at the end of a three-foot probe that is then dipped into a large Liquid Helium Dewar where the junction can now reach cryogenic temperatures and the Niobium becomes a superconductor.

In order to control the contact pressure between the two superconductors we use a differential screw that shifts the Niobium needle up or down while in the Liquid Helium Dewar. It is important to note that the system is very delicate and required a lot of patience, due to the high level of mechanical work we had to do. When controlling the position of the niobium needle it is important to be careful and not to apply too much pressure such that we remove the oxidation layer. We also had no way of verifying how oxidized the needle was until we actually were able to observe the DC Josephson effect and had to test a lot of different needles. In our first actual attempts in the experiment we were unsuccessful in observing the DC Josephson effect as we kept shorting out the superconductors because we removed too much of the oxidation layer between the two.

When inserting the actual probe into the Dewar it is important to insert the probe slowly while continuously twisting the probe to ensure that the probe does not freeze or get stuck in the cryostat. Then once the probe was actually in the Dewar it is important to give the system some time to cool down and reach its superconducting state, otherwise the experiment will not work.

We were able to verify that we measured the DC Josephson effect by observing the IV curve plotted on the oscilloscope. Due to the low current measurement the experiment requires a four wire measurement of the current. To actually observe the DC effect, we must connect the 4 wires making contact with the junction within the probe connected to a pre amp with a gain of about 500, a low frequency oscillator to match the frequency from the wall and reduce the noise in the experiment, and an oscilloscope to observe the actual experiment. All data is then collected using a DAQ.

Once we are able to see the DC effect on the oscilloscope without applying an external voltage we can confirm that this is the DC Josephson Effect by applying an external magnetic field near the Dewar such that we observe fluctuations on the maximum current flowing through the system without the voltage dropping [4].

In retrospect observing the DC Josephson Effect is a lot simpler than observing the AC Josephson Effect due to the 3 different parameters we must use to see the AC Josephson effect. To observe the AC effect, we had to apply microwaves to the system using an RF Oscillator and a Microwave Doubler Power Supply. The microwaves will allow us to observe and measure the AC Josephson effect as seen in Eq. (5), which predicts the alternating current with a frequency of $\frac{2eV_0}{h}$ [5]. The applied microwaves are used to measure the frequency of the alternating current by being in resonance with the system which will then allow us to observe the AC Josephson effect. We must apply microwaves such that our system is in resonance and which will only amplify the AC effect.

Overall we had three parameters, we had control of pressure (ie. niobium need making contact with the niobium screw), applied microwaves frequency which range from 9-13GHz in the RF Oscillator then doubled using the Microwave Doubler, and the power generated by the RF Oscillator, ranging from 0-20Db. However, it is important to note that the value given by the apparatus is not accurate because the microwave frequency doubler does not accurately double the microwave frequency. Therefore, to get a more accurate measurement of the frequency used

to observe the AC effect we tuned the absorption cavity until we saw a drop in the output of the crystal detector attached to the absorption cavity [4].

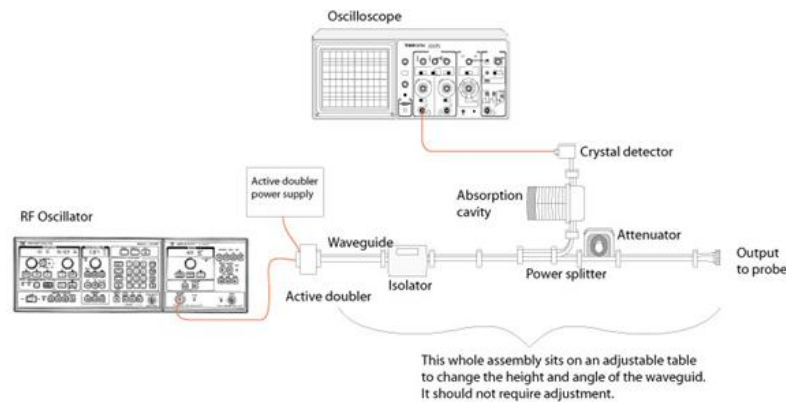


Figure 3 I thought this picture from [4] was really useful in getting a good visual of how the experiment was set up. Again this picture is from the lab itself, [4] I did not recreate it.

Analysis

The DC Josephson effect was overall a lot easier to observe than the AC Josephson effect which had three different parameters we had to take under account to actually observe the experiment. The DC effect on the other hand is a lot simpler to observe because you do not need to apply an external voltage nor control an applied frequency. In retrospect the most challenging part of the DC effect was just confirming that we were actually observing the DC effect. I believe we had observed the DC effect a lot sooner than we realized. When using a magnet to confirm that you are observing the DC Josephson effect it is essential that you move the magnet around to the Dewar to see the fluctuations rather than simply putting the magnet near the Dewar and expecting to see it. Nonetheless, we were able to get a pretty good observable DC Josephson effect as seen in Figure 4.

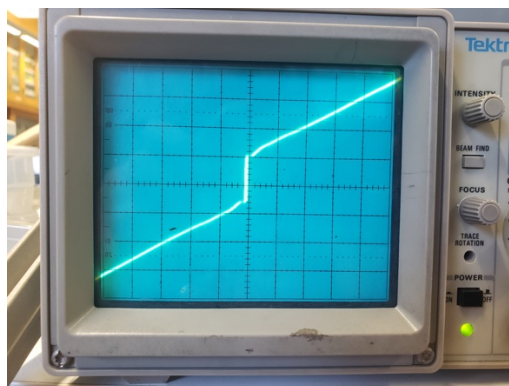


Figure 4 DC Josephson Effect: The IV curve on the oscilloscope is evidence of the DC Josephson effect. The spacings on the oscilloscope is $1\text{mA}/\text{Div}$ on the y axis and $50\text{mV}/\text{div}$ on the x axis. Therefore, the maximum current (ie. critical current) we observe on the DC effect is about 1mA .

The AC Josephson Effect on the other hand was a lot more challenging to work with making it difficult to actually observe. Nonetheless we were able to collect 15 different measurements of the AC effect. However, due to the low resolutions and age of our measuring devices we were unable to acquire a more accurate measurement of the AC Josephson effect. While trying to measure the actual AC effect we would first try to vary the frequency ranges of 9GHz-13GHz on the RF oscillator and noted all the frequency steps we saw some sort of fluctuation in the horizontal line we observed. Once we found the best frequency for a certain contact point we also varied the power on the cavity and found that 0-10dB offered the best effects but were not as effective as varying the frequency or changing the contact point.

It was challenging to have to work with the differential screw because the points were random and at random pressures, so it was always that last thing we focused on before trying a different point. Figure 5 is an image of the oscilloscope observing the AC Josephson effect.

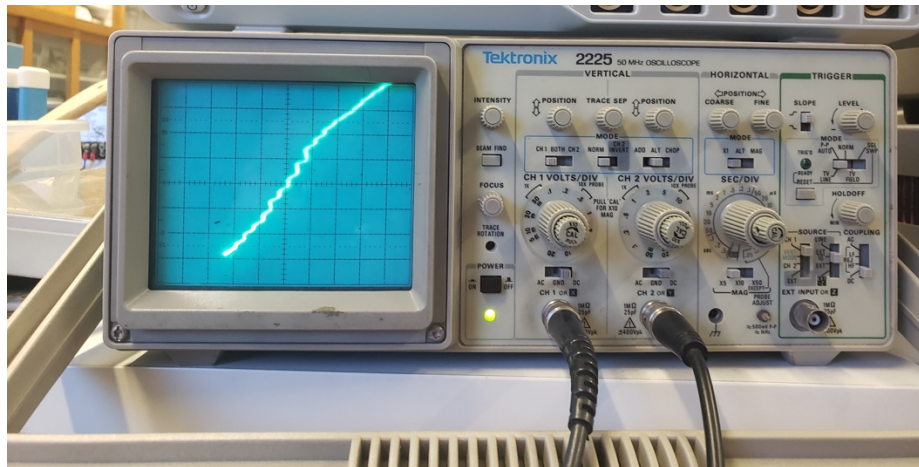


Figure 5 AC Josephson Effect: The IV curve on the oscilloscope is evidence of the AC Josephson effect. The spacing's on the oscilloscope is 1mA/Div on the y axis and 50mV/div on the x axis.

Overall I believe our data would have come out more accurate with better equipment. I believe that the four wire measurement was not enough to observe the supercurrent created in the AC Josephson effect. We had a lot of different observations of the AC Josephson effect however once we trying to collect the data on the DAQ we noticed that the data came out noisy and the voltage range measured was not consistent throughout the experiment therefore we were unable to average out our data. Nonetheless, we collected 15 measurements at of the AC effect using the DAQ, Figure 6,7,8.

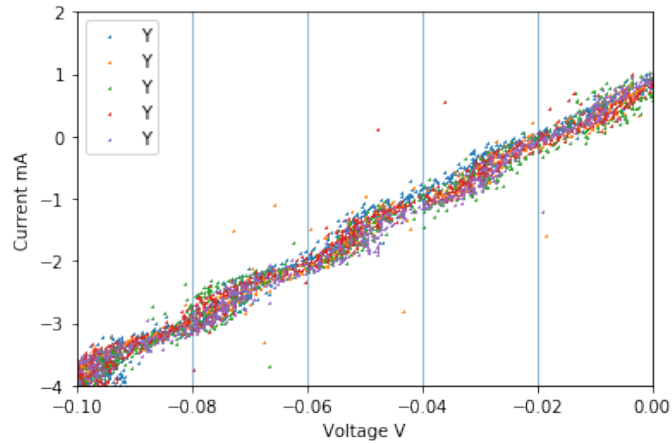


Figure 6 AC Effect Observed: This is 5 datasets combined with to show a clearer image of the steps. We have 1 step every .02V.

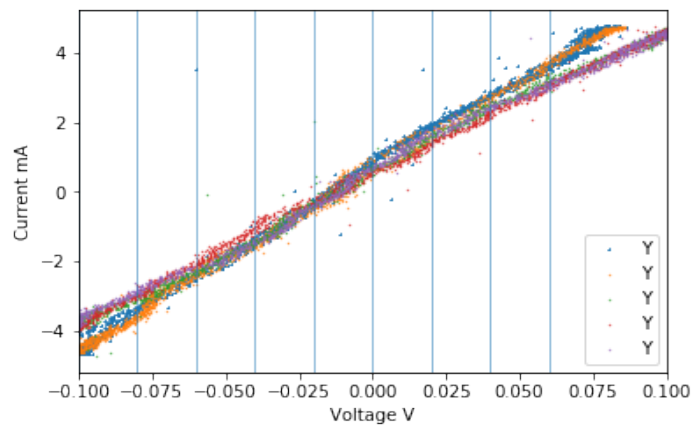


Figure 7 AC Effect Observed: This is 5 datasets combined with to show a clearer image of the steps measured. We have 1 step every .02V. The voltage steps are less visible in this picture

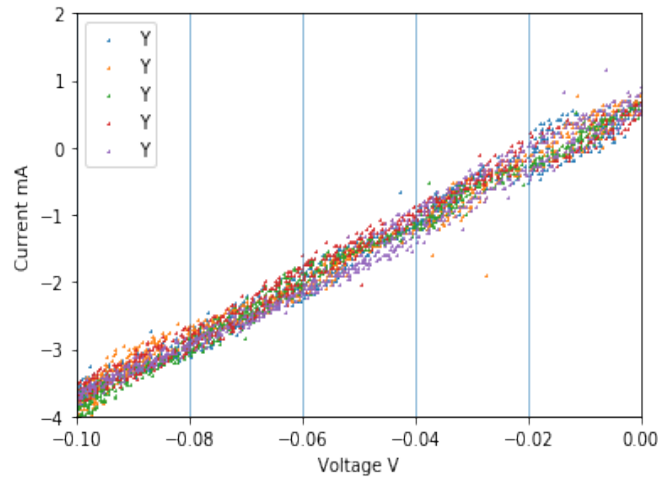


Figure 8 AC Effect Observed: This is 5 datasets combined with to show a clearer image of the steps. We have 1 step every .02V.

It was difficult to simulate the image we saw in the oscilloscope in Figure 5 as the data points varied each figure is a measure at a different sample rating on the DAQ. Figure 6 shows the clearest and most consistent steps. Using the UnivariateSpline function in python I tried to fit a line to our data however due the high amount of noise I was unable to fully replicate the steps with the function.

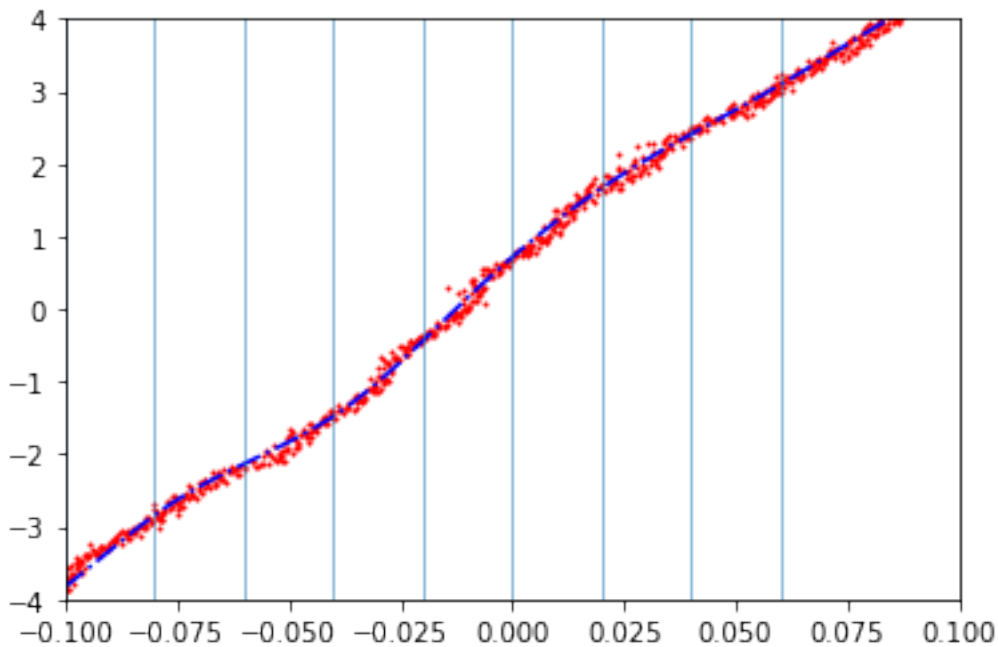


Figure 9 Fitted Graph to the points of one dataset. As before the X axis is Voltage(V) and the Y axis is Current in (mA)

To get a better measurement of the voltage difference between steps I visually collected the voltage difference per each observed step in each dataset. Due to the low resolution in our data I

was only able to get five steps in each image. I then Used That to get 5 different measurements of ΔV per data set. Figure 10 shows the table giving the voltage difference per step observed. Using this data I was able to get the mean of the voltage difference per step and calculated five different measurements of $\frac{2e}{h}$. I found that the standard deviation of the list of average voltage per dataset was.

Avg Voltage difference per dataset = [0.018V, 0.011V, 0.019V, 0.015V, 0.019V]

	0	1	2	3	4
Voltage difference between Step for Run1	0.010	0.030	0.015	0.020	0.015
Voltage difference between Step for Run2	0.025	0.025	0.010	0.005	-0.010
Voltage difference between Step for Run3	0.025	0.015	0.020	0.015	0.020
Voltage difference between Step for Run4	0.010	0.015	0.020	0.015	0.015
Voltage difference between Step for Run5	0.020	0.010	0.030	0.015	0.020

Figure 10 Voltage difference between steps. This is measured in V. The list above is the average of every row.

Once we had all the data for the AC effect we measured the frequency to be 23.85GHz. Using a voltage reference box we then measured the end-to-end gain of the voltage reference box of 517uV but when we measured the voltage box we measured a voltage of .11V. We then found the gain to be 215.6863 as seen in Eq. (6) .

$$Gain = \frac{.11V}{517e^{-3}V} = 215.69$$

Equation 6 Gain Calculation

Using the data, we were able to use Eq. (7) to calculate $\frac{2e}{h}$ for each voltage difference.

$$hf = \frac{2e(V_2 - V_1)}{Gain}$$

$$\frac{f}{(V_2 - V_1)} * Gain = \frac{2e}{h}$$

$$\frac{2e}{h} \cong \frac{23.85\text{GHz} * 215.68}{(V_2 - V_1)}$$

$$\frac{2e}{h} = [2.86, 4.68, 2.7, 3.42, 2.7] \times 10^{14} \text{ [Hz/V]}$$

Equation 7 This is my calculation for $\frac{2e}{h}$ using the data from Figure 10. The calculated value of $\frac{2e}{h}$ is $4.836 \times 10^{14} \text{ Hz/V}$

I found that the error in comparison to the calculated value was Eq. (8). The best data set gave me a percent error of 3.3% to the calculated value which is great. However, I found the standard deviation of the measured values of $2e/h$ I get a standard deviation .1549.

$$\text{Percent Error} = \frac{\text{Measured Value} - \text{Calculated Value}}{\text{Calculated Value}}$$

$$\text{Percent Error} = [0.409 \ 0.033 \ 0.44, 0.291 \ 0.44]$$

Equation 8 Error Calculation

Figure (11), shows the data from run 2 that had a percent error of 3.3%, this was the most accurate result we measured. Nonetheless, the data still appears to be very noisy and I believe we would have gotten more accurate results if we would have made more measurements.

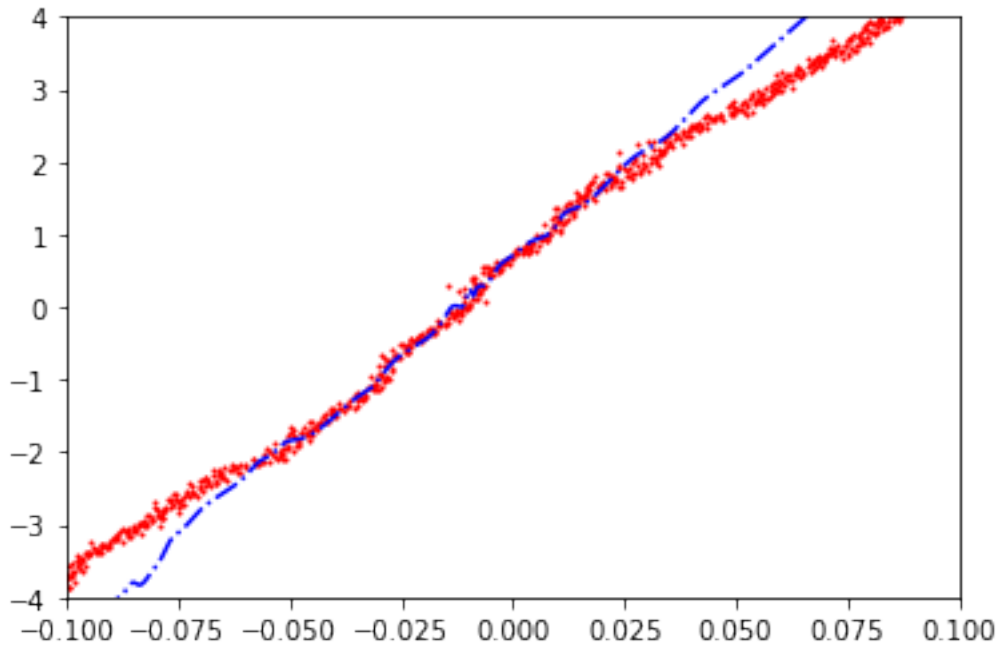


Figure 11 AC Effect. The X axis represents Voltage(V) and the Y axis represents Current(mA) this is an IV curve of the data that returned the most accurate result. We see a step between the

following points $[.075-.05 V, .05-.025V, .025-.015V, .015-.01V, V.01-.02]$. Such that the size of the steps in V are $[.025, .025, .01, .005, .01]$

Conclusion

Furthermore, we were proud of our results and having values within the same magnitude of the calculated value of our data originally looked very messy. Luckily I was able to clean the noise in the data $\frac{2e}{h}$ since our data originally looked very messy and the AC effect was definitely very difficult to achieve given the sensitivity of the measurements and the state of our equipment. I believe we would have found more accurate results if I was able to analyze more data.

I would really like to give a shout out to my partner who has been extremely helpful throughout the experiment. Despite going through grad school apps he has managed to be a reliable and helpful partner. He also recommended I used the python function Univariate spline on python to try to fit a graph which was very helpful in analyzing the steps in the graph.

1. Langenberg, Donald, et al. *The Josephson Effects*.
[http://physics111.lib.berkeley.edu/Physics111/Reprints/JOS/04-The Josephson Effects.pdf](http://physics111.lib.berkeley.edu/Physics111/Reprints/JOS/04-The_Josephson_Effects.pdf).
2. Richards, P., et al. *Student Laboratory Demonstration of Flux Quantization and the Josephson Effect in Superconductors*.
[http://physics111.lib.berkeley.edu/Physics111/Reprints/JOS/01-Student Laboratory Demonstration.pdf](http://physics111.lib.berkeley.edu/Physics111/Reprints/JOS/01-Student_Laboratory_Demonstration.pdf).
3. Clarke, John. *The Josephson Effect and e/h* .
[http://physics111.lib.berkeley.edu/Physics111/Reprints/JOS/Clark Josephson effect and \$e/h\$.pdf](http://physics111.lib.berkeley.edu/Physics111/Reprints/JOS/Clark_Josephson_effect_and_e_h.pdf).
4. *Josephson Junction Physics 111B:Advanced Experimentation Laboratory*.
<http://experimentationlab.berkeley.edu/sites/default/files/writeups/JOS.pdf>.
5. Richards, P. *The Josephson Junction as a Detector of Microwave and Far Infrared Radiation*.
[http://physics111.lib.berkeley.edu/Physics111/Reprints/JOS/06-The Josephson Junction as a Detector.pdf](http://physics111.lib.berkeley.edu/Physics111/Reprints/JOS/06-The_Josephson_Junction_as_a_Detector.pdf).

Appendix: Note this is only the 5 data sets used to calculate the percent error however I will include all the data files on bcourses due to the large amount of pages.

```
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