We took 9 pictures at electrode voltage increments 6.5V between 175 and 302V.

In order to keep the radius readings between 4.5 and 9.5 cm, we had to adjust the coil voltage (decrease as V decreases) occasionally because \( V = IR \) as the coil voltage decreased, so did the coil current.

We will record the various radius lengths from the pictures next lab period.

Today we measured the left and right radius of each ring from the pictures we took last lab. (see table above)

Since electrons interact with the helium in the glass and slow down, we took the measurement from the outermost edges of the ring.

We noticed that the left side of the ring was thicker than the right, perhaps accounting (partially) why the left side values were sometimes larger than the right side values.

In our analysis we will average these two values and determine the actual radius using the geometric technique discussed in the prelims.