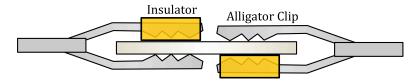
## Curie Temperature Measurement

MSE 360 - Fall 2009 Revised: 11/30/2009

1) Paint both sides of your sample with silver paint, ensuring that the paint does not run down the sides of the sintered pellet, and sandwich it between two metal disks. Attach the leads from the HP Impedance Analyzer to your sample using the alligator clips as shown below.



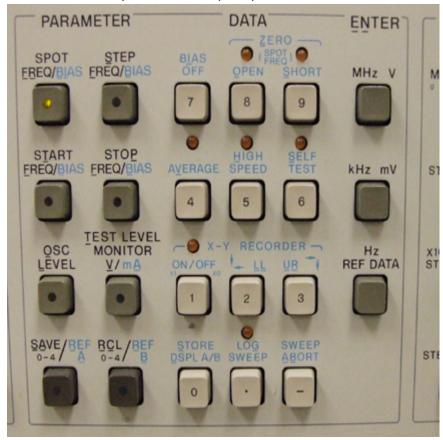
- 2) Submerge sample in Silicone Oil. Make sure that the sample does not touch the thermocouple nor the sides or bottom of the beaker.
- 3) Turn on the HP Impedance Analyzer



4) Use the Up/Down buttons to toggle Display A set to C



5) Use the number keys to set the frequency to 1kHz



6) Set the ZY Range from auto to manual. You probably want to see 3-4 decimal places.



- 7) Turn on the hotplate. A setting around 4 will be good initially, however you may need to turn it up later in the experiment to maintain heating.
- 8) Record the capacitance values from Display A every 5°C