

1st Ferroelectric Experimental Setup Simple Diode Configuration

23 May 2013

Some Photos:

KF 40 T sections

Ferroelectric sample

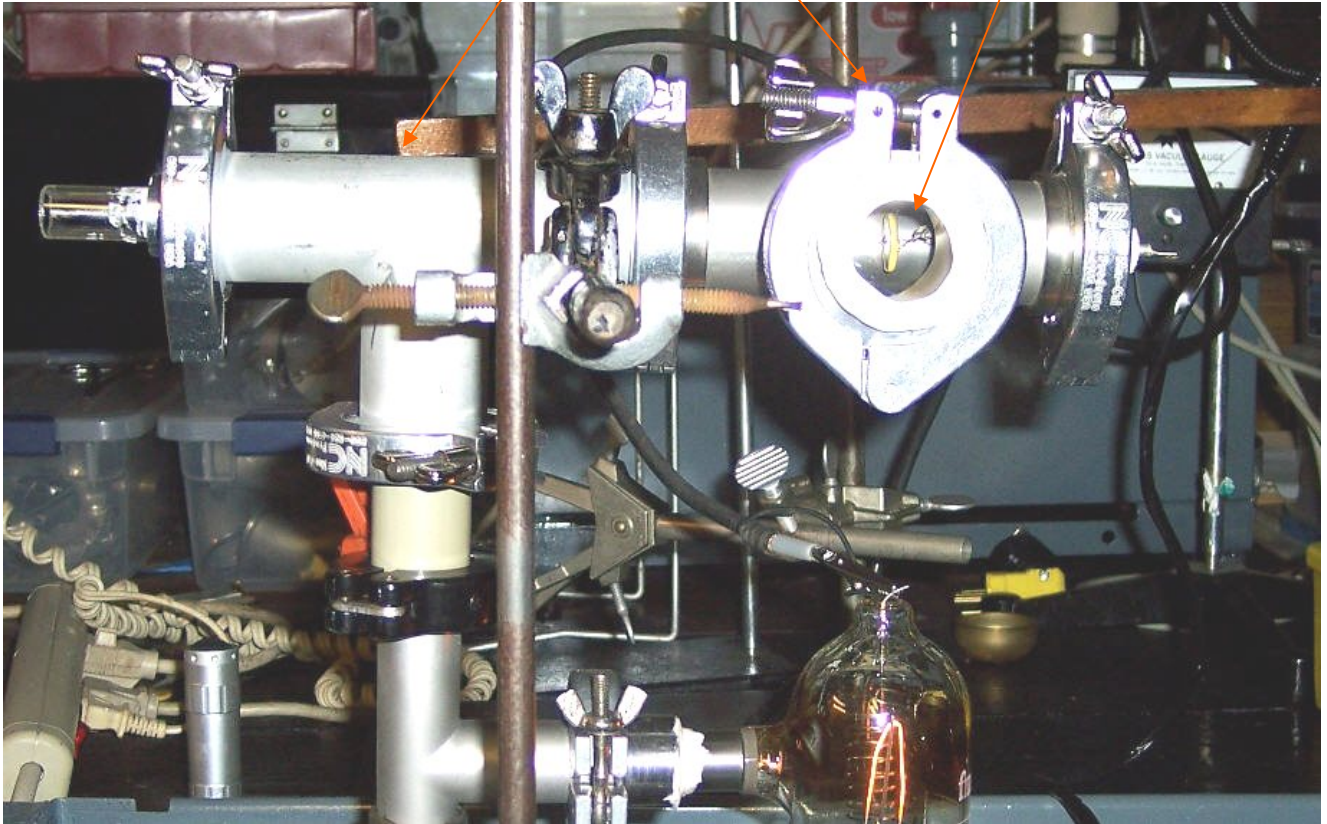


Photo 1

I was able to get two KF 40 T sections and clamps from Ebay for cheap

This note shows photos of the experimental setup; at the moment I am slowly pulling a high vacuum for several days to check out what base vacuum I can achieve with this added section to my vacuum system. It takes a while for the system to reach its optimum vacuum due to the initial outgassing.

The cathode pulse driver and anode input sections have not been built yet; at the moment I just want to see how low a vacuum I can get.

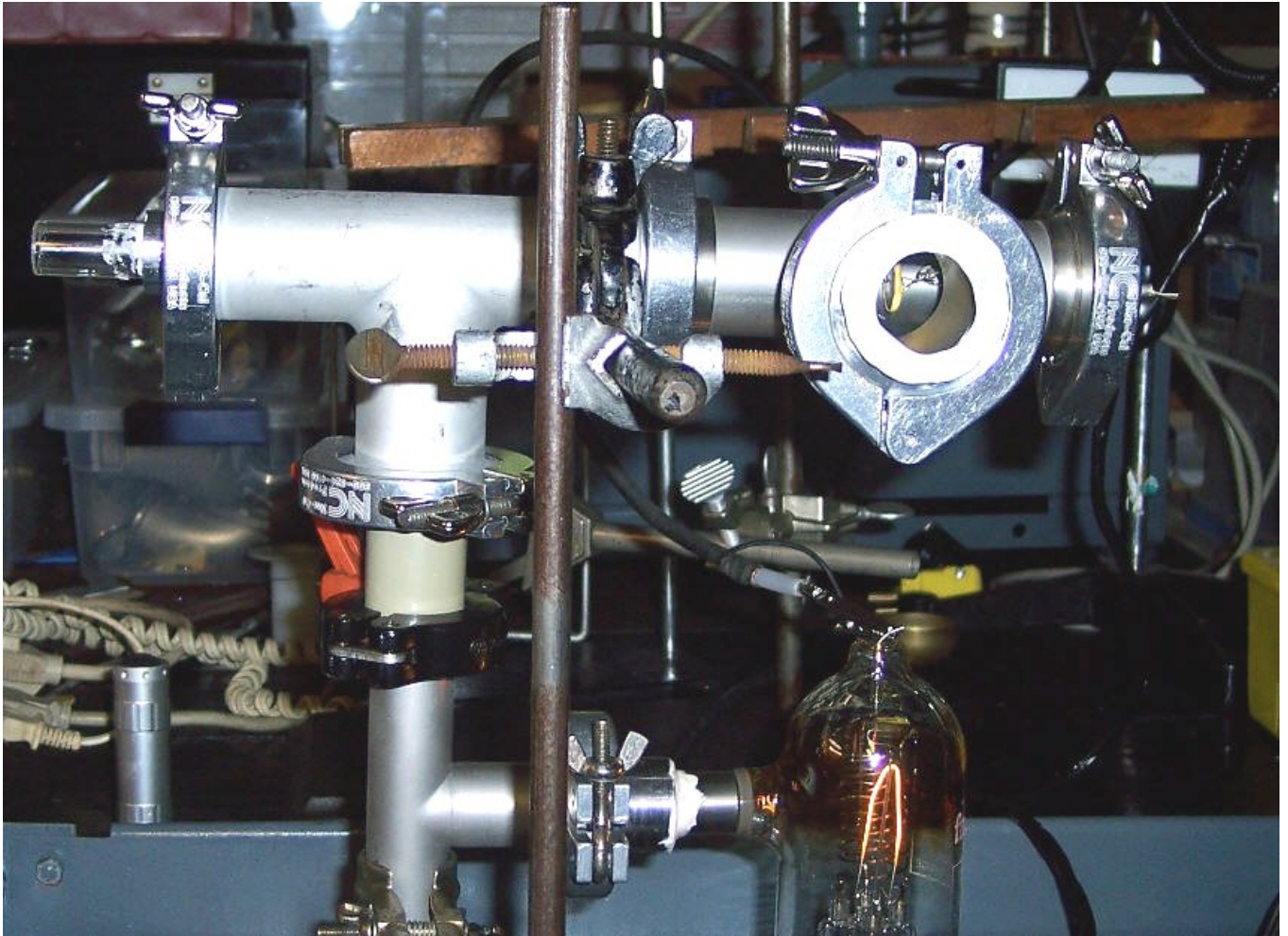


Photo 2 Another View

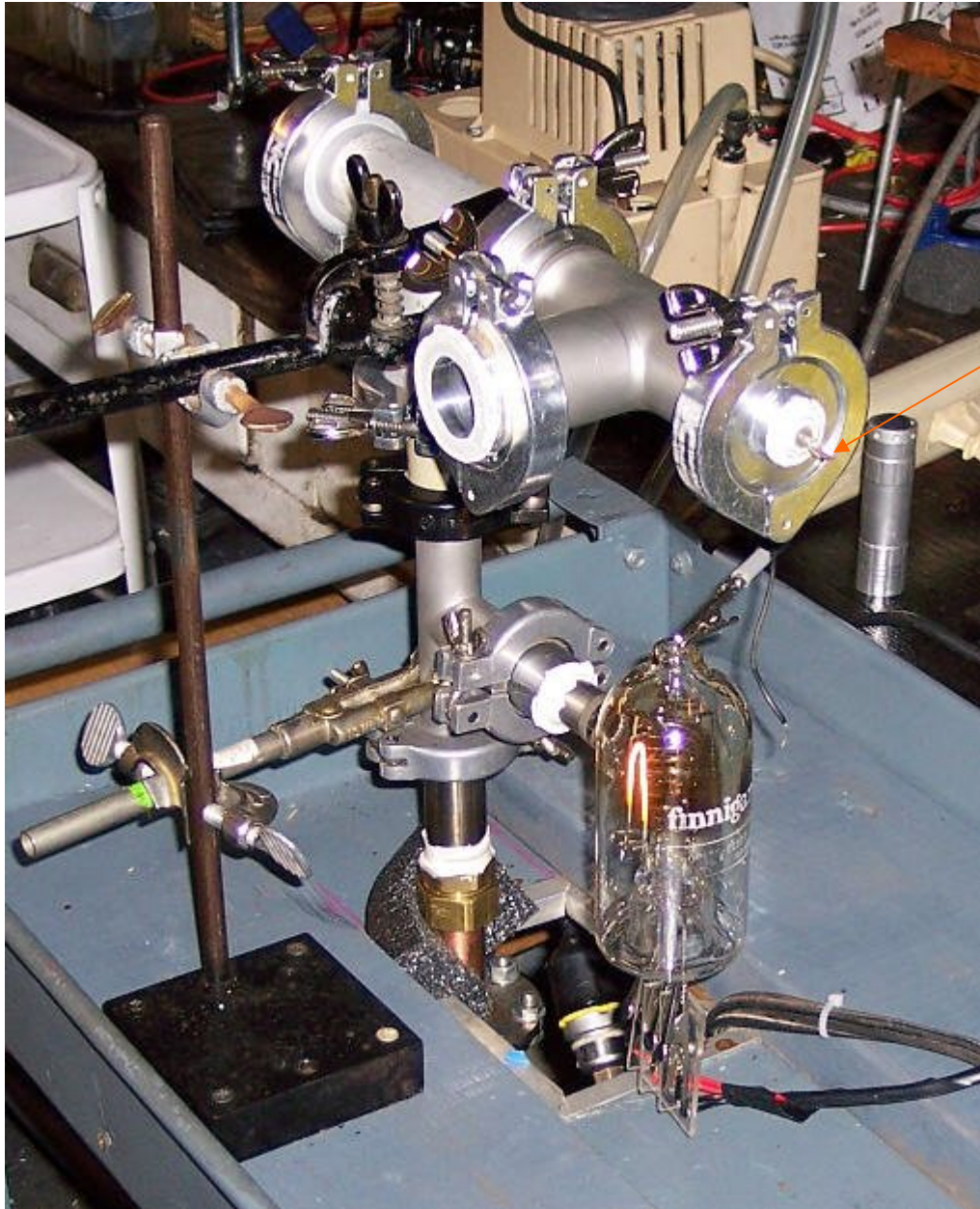


Photo 3 Ferroelectric Pulse Input

Using scrap aluminum I machined , with my lathe, the KF end section for the INPUT

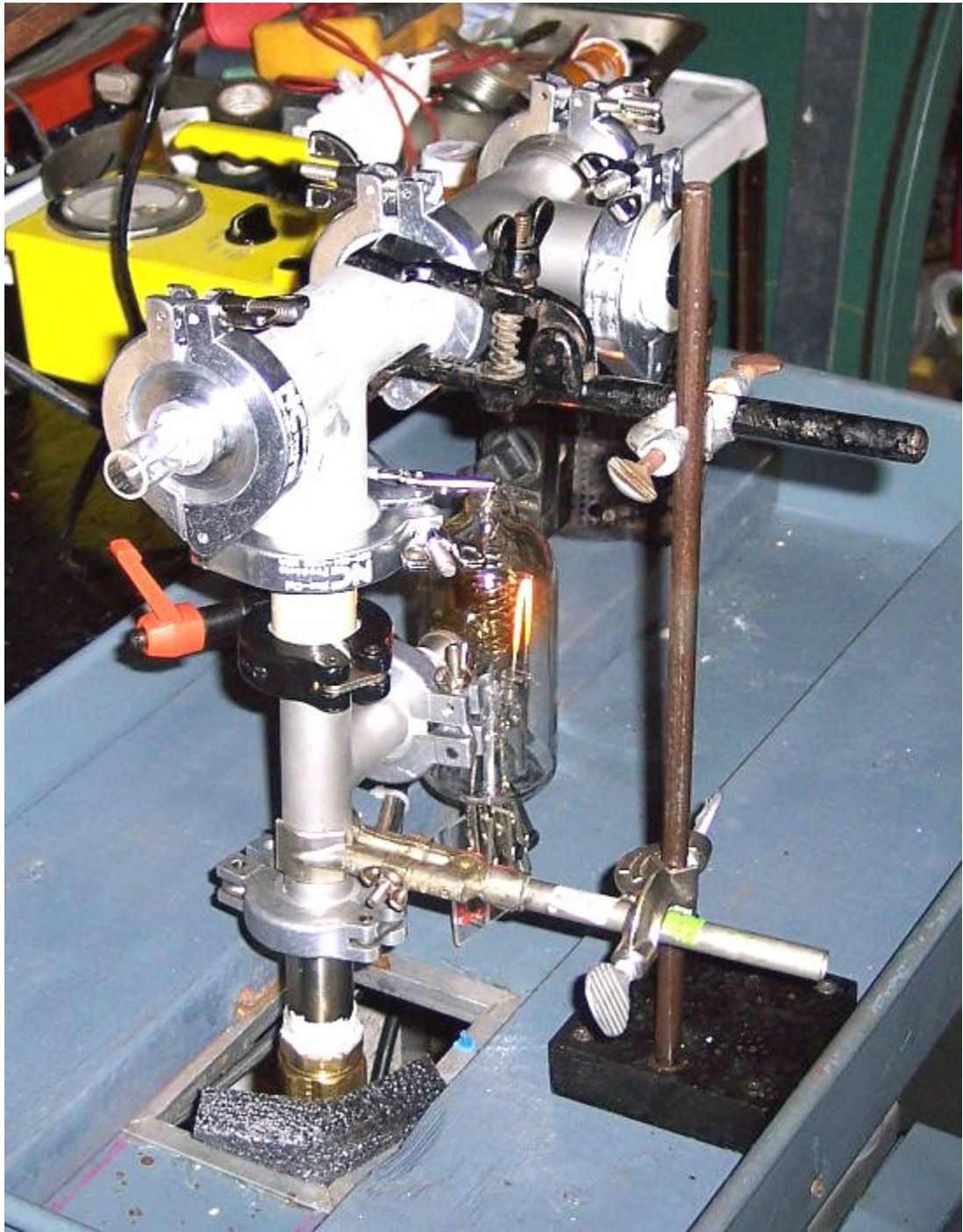


Photo 4 Anode Input

Using scrap aluminum I machined , with my lathe, the KF end section for the INPUT

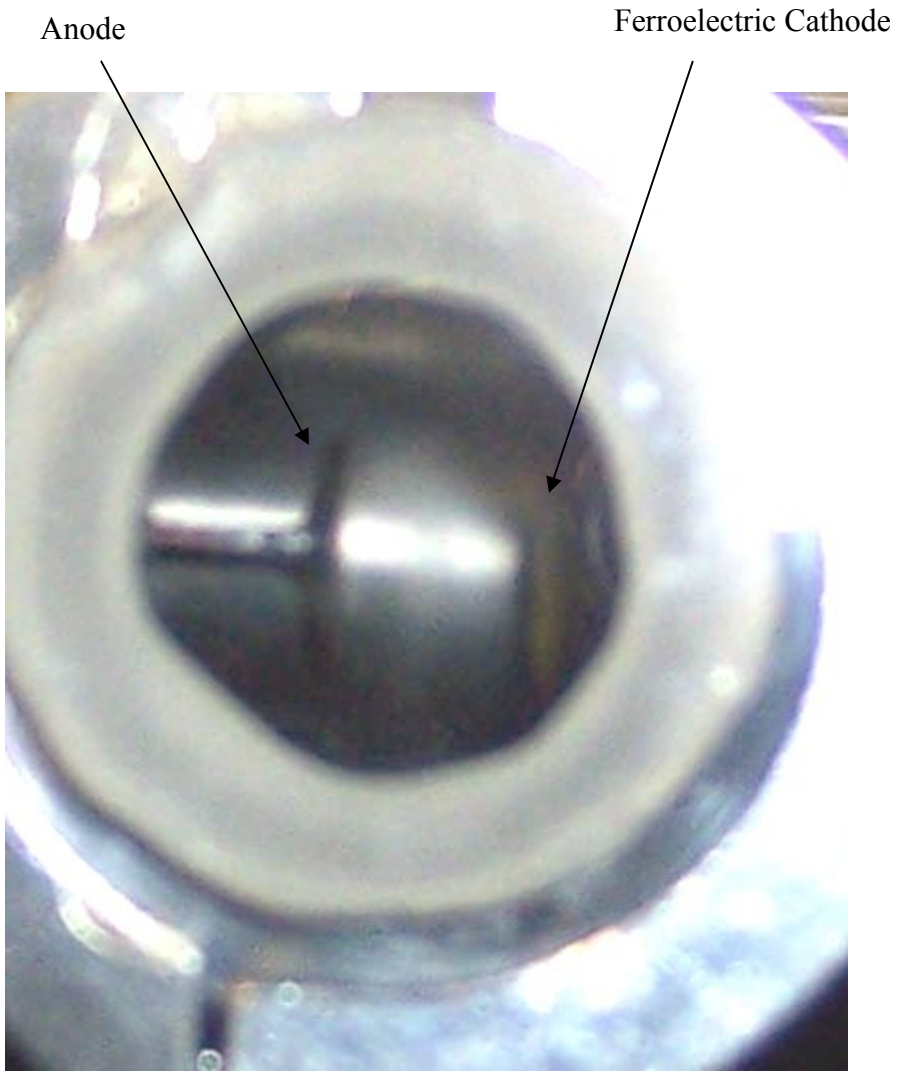


Photo 5 Observation Window

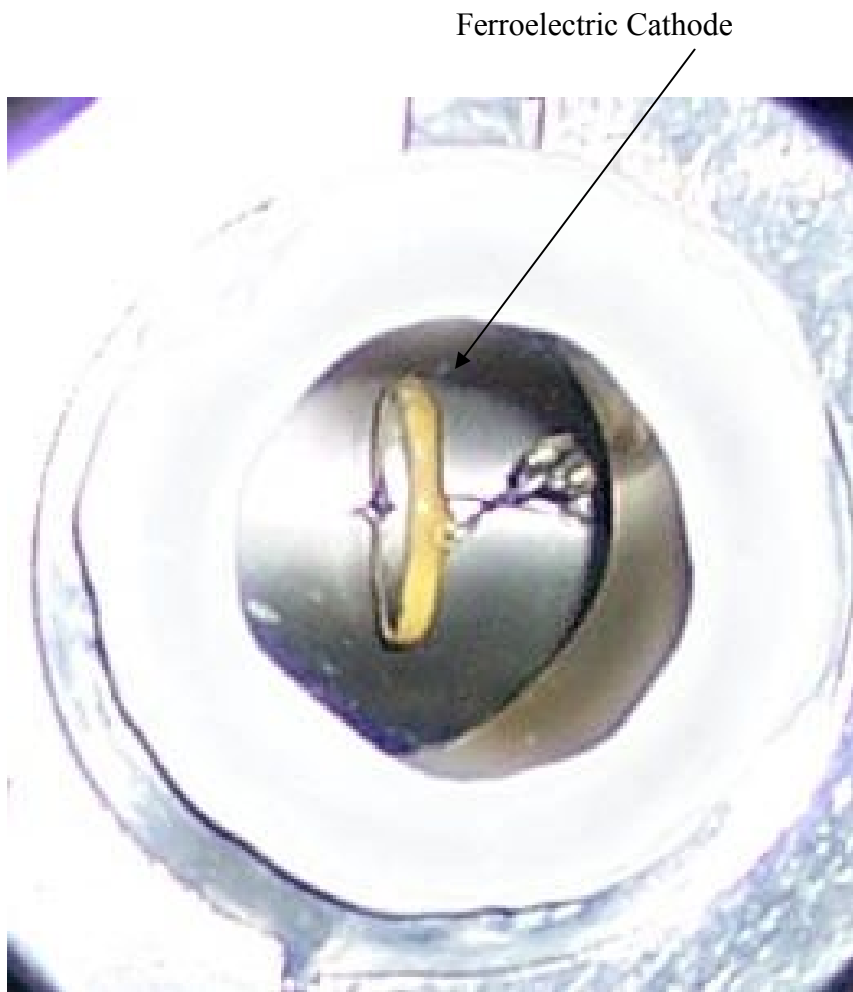


Photo 6