EOS TPC Status

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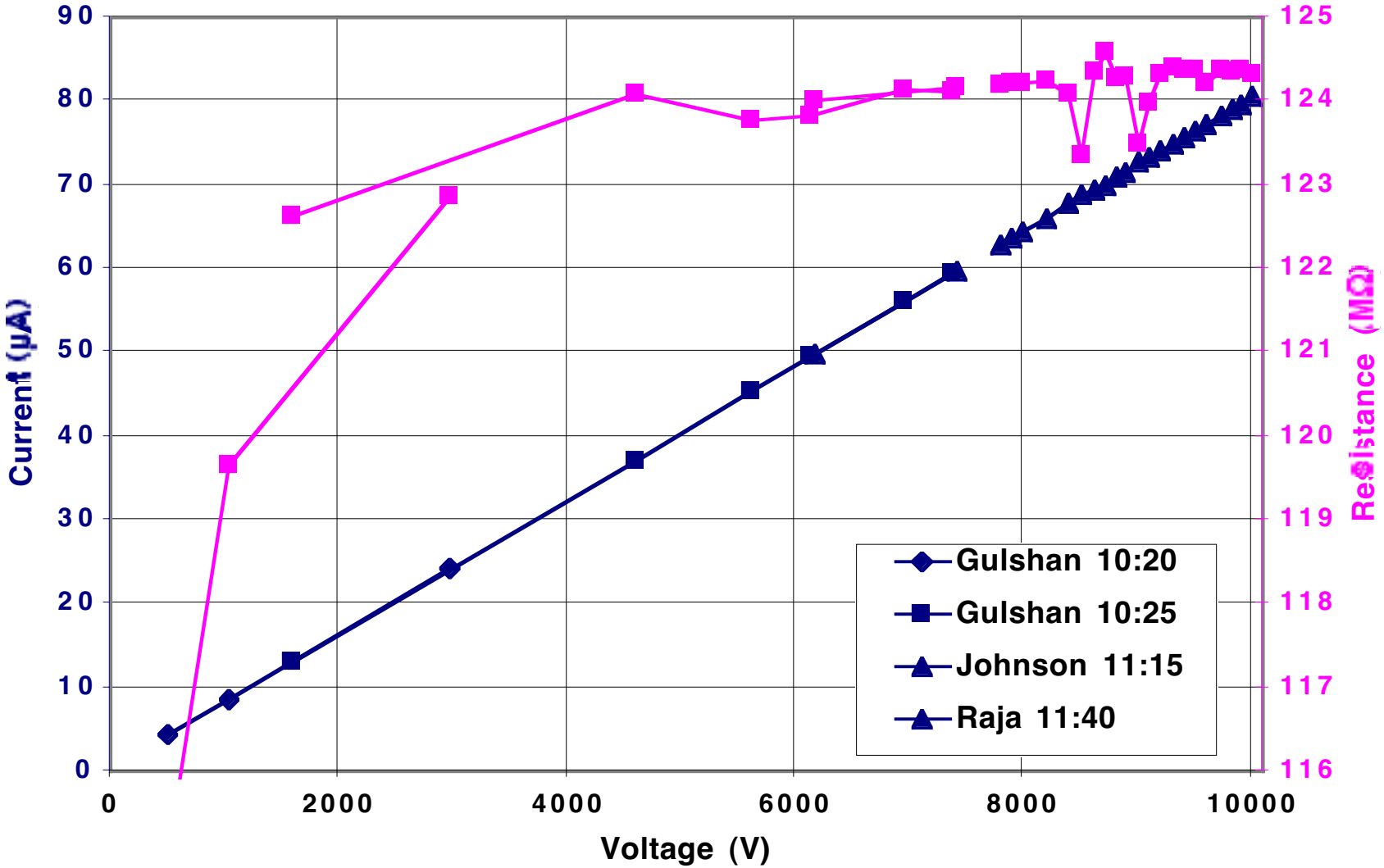
TPC Is In Lab 7

Cathode Plane Installed for HV Tests 8/1/00

TPC Cathode High Voltage Tests



TPC Anode High Voltage Tests

- **13 of 16 Anode Sections Reached 1300 V Operating Point**
  - **Halted ramp on remainder at ~800 nA**
    - **Gas was likely 84% N_2, 16% O_2, 60% relative humidity**
  - **Only one other section exceeded 200 nA at 1300 V**

- **No Shorts or Opens!**

Removed Cathode Plane for Trip to Lab 7

Tasks to Resurrect the TPC Data Acquisition

- Install cathode plane — exists
- Establish gas flow (P5?) and canary
- Cable up cathode and anodes high voltage

⇒ **Check noise, look for cosmics on anodes!**

- Install chiller and plumbing — exists
- □□□Check out low voltage supplies — exist
- Build interlock controller
- Cable up low voltage to “sticks” — cables exist
- Cable up fiber optics to “sticks” — cables exist
- Reboot Suns — exist
- Cable VME crates
- Sticks ↔ Rcvr cards ↔ VME ↔ Sun communications

⇒ **Readout cosmic tracks!**

TPC Water Cooling Chiller

TPC VME and Power Supply Racks