



LEGEND:

- I1** – helix current (green trace, read on mA scale)
- V1** – harmonic of fundamental signal (blue trace)
- V2** – injected “harmonic” signal (red trace)
- V3** – TWT beam voltage
- R1** and **R2** – required signal source loads
- R3** – helix and helix-to-ground resistance
- R4** – sets desired beam intercept current
- D1** – HVPS ground DC return path
- D2** – Blocks V3 current through signal sources