

Setting the **pump-diode power setting** based on Regal Black and Fullerene-Soot mass spectra

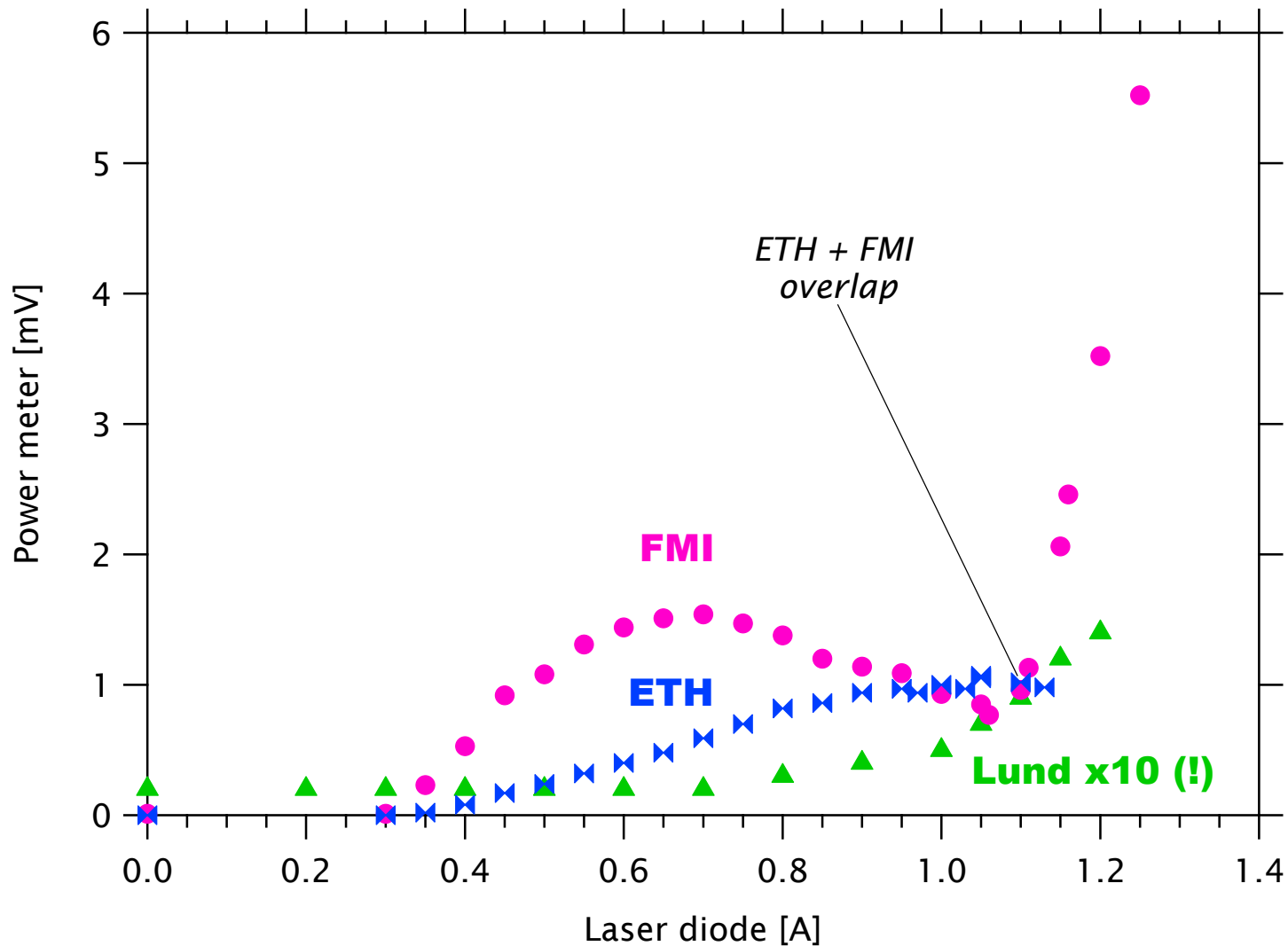
Joel C. Corbin

Axel Eriksson

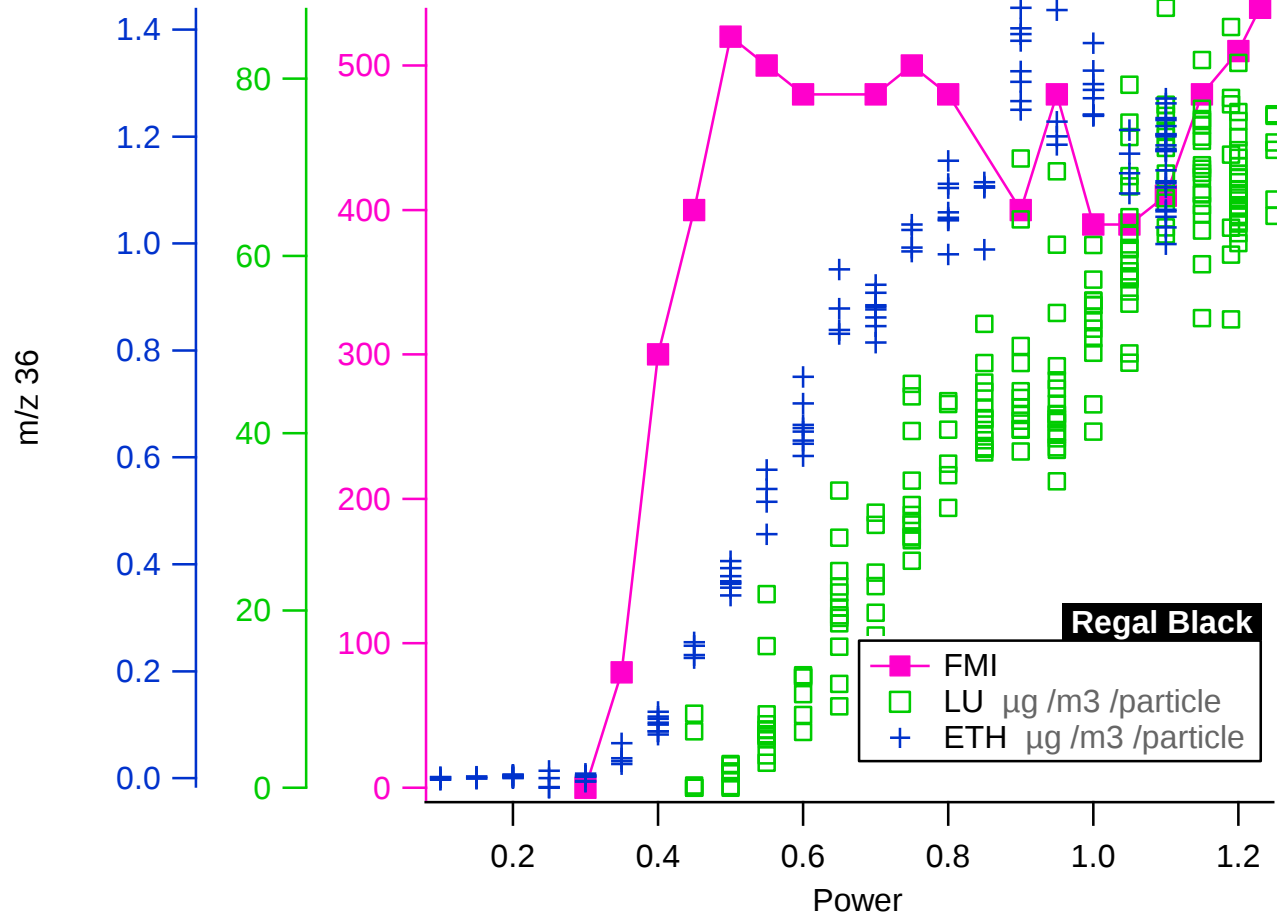
Sanna Saarikoski

Amewu Mensah

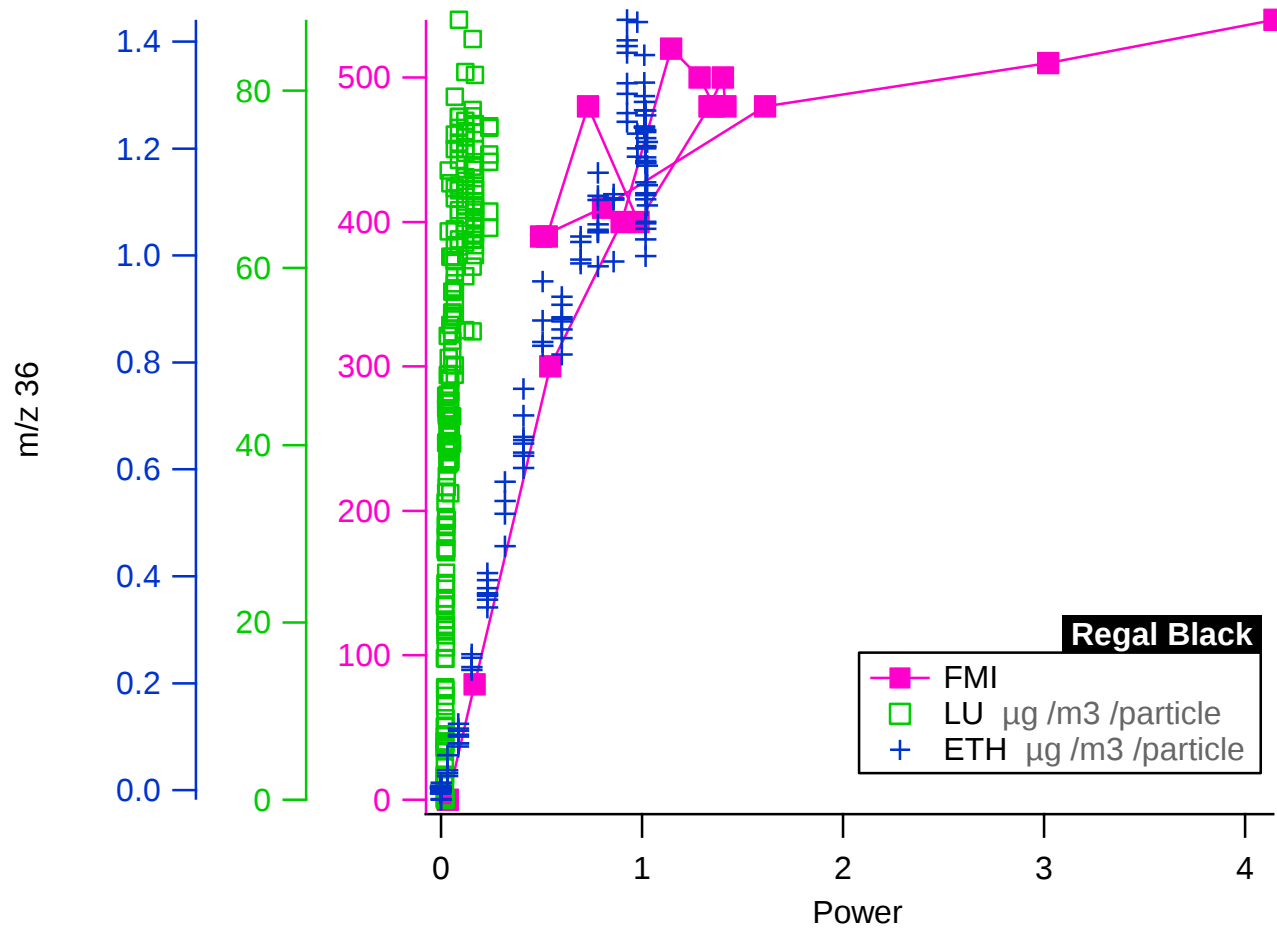
Leaked laser power (meter readout) vs. Diode power (SP module)



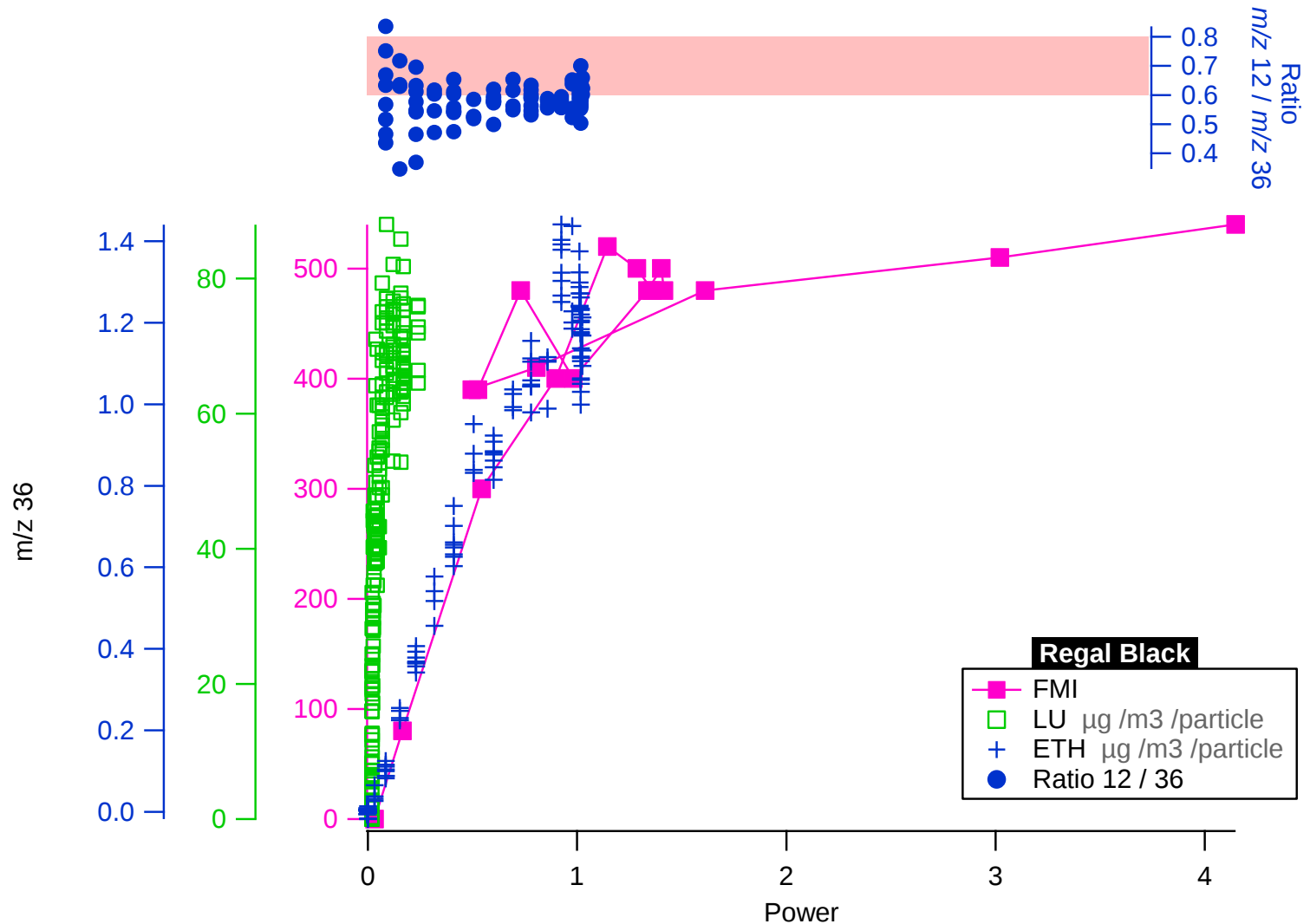
m/z 36 vs. Diode power



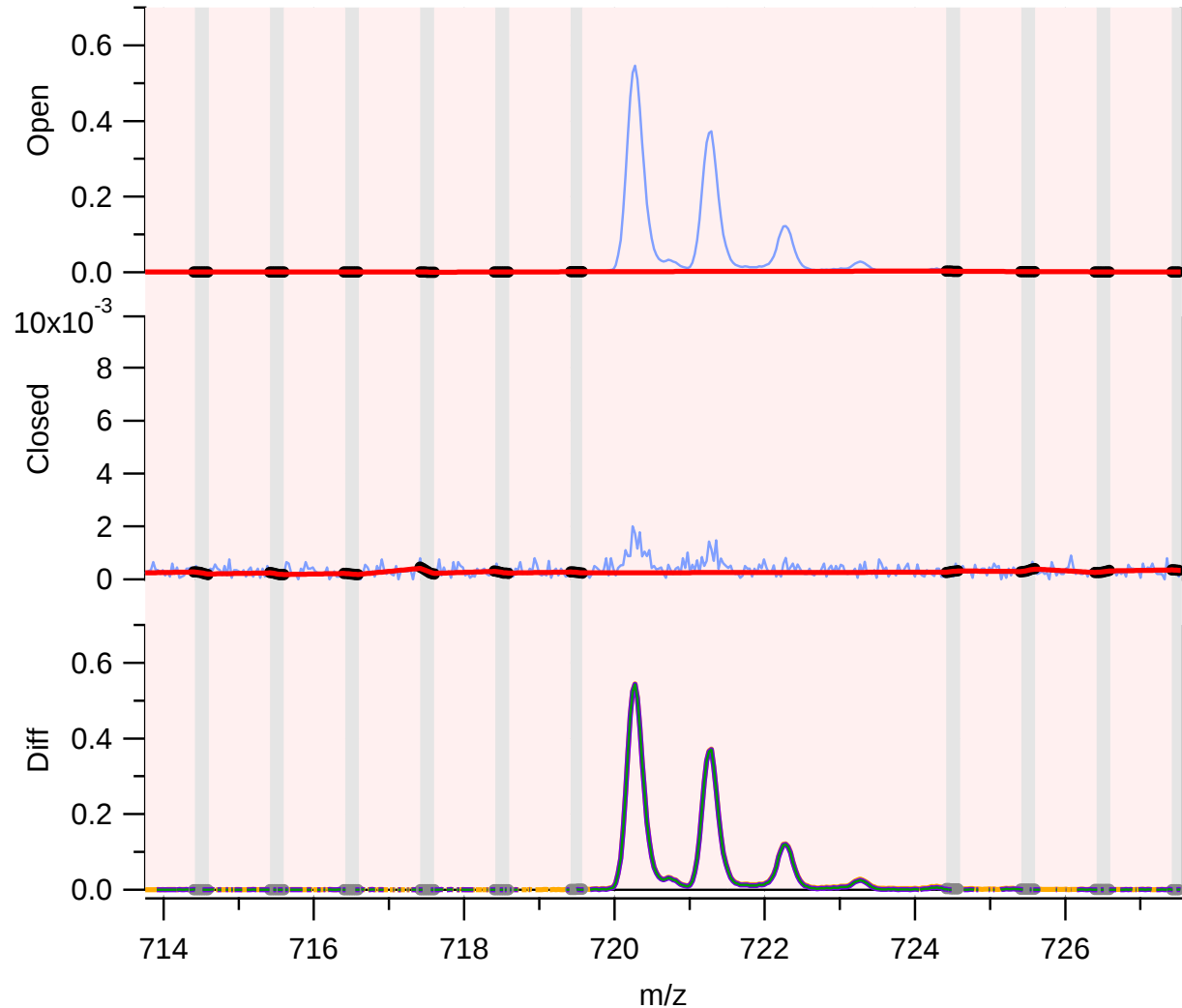
m/z 36 vs. meter readout



Ratio 12/36 [ETH]

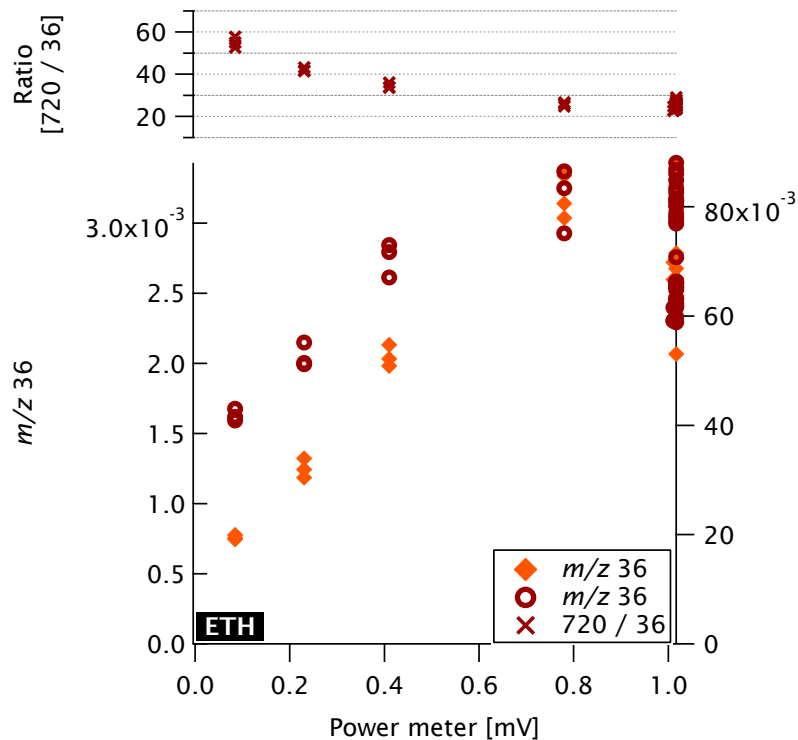


Laser-power drop on fullerene-enriched soot: C_{60}^+

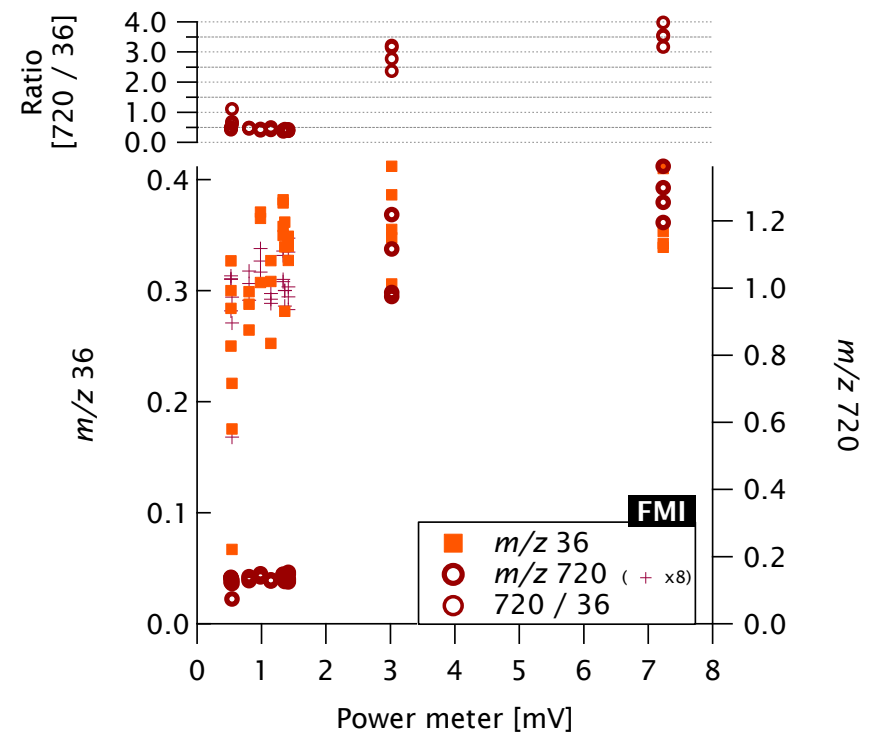


C_{60}^+ response changes at high LP

ETH



FMI



Recommendation?

Use RB “laser power drops’ to set laser power:

1. RB drop tells you where signal saturates
2. Set power to the left of the saturation region
3. Avoids high-fullerene region

end