How to deal with cell phone noise

• Cell phones are a problem for Tofwerk TOFs
  – Both GSM and CDMA (within 7 meters), also 2-way radios (worse than cells, 100 MHz), radio towers
  – Wireless internet (Wifi) is not a problem (2.6 GHz)
  – Cordless home phones?
  – More of a problem for some instruments that others
  – Survey: https://docs.google.com/Doc?id=dd8ffd56_28fwxxvq2d

• Solutions
  – Can ask people to turn off cell phones.. But recent proposal review: “TOF-AMS is extremely susceptible to cell phone interference, making it the running joke in the community”
  – Urs’ cell phone noise reduction guide: http://tinyurl.com/ihatecellphones
  – C-TOF: reduce bandwidth of AP240 to 200 MHz
Burning Question on Saturation (Joel)

• "How important is it to have the saturation probability between 1 and 3%? How high (or low) is too high (or low)?

• Also, we notice the Saturation Probability decrease over the course of 30 minutes when we start the Bitwise procedure during setup. Do other people see this, and should we be worried? The first time we check the Sat. Prop. in bitwise, it will be say ~ 25%... a few minutes later it's lower, and after awhile, say 25 minutes or so, it will settle out to 7% or 5% or 3%, depending on the day."