

# Weekly Meeting

November 9 2017

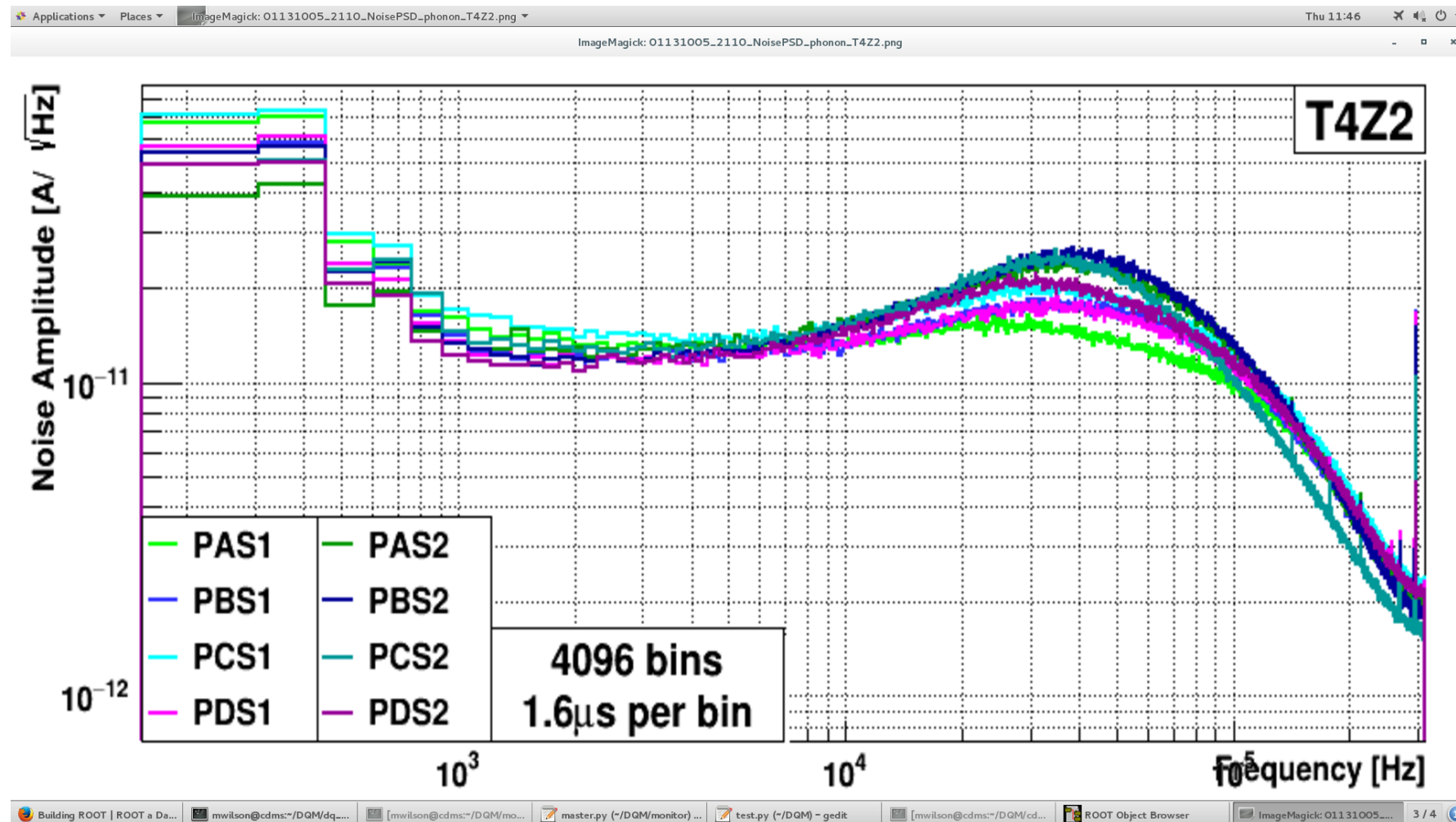
# DQM

- Got pyroot to work on computer
- Have written code that can read in cdms processed root files
- Using Scott Fallows' code, can generate noise PSD plots

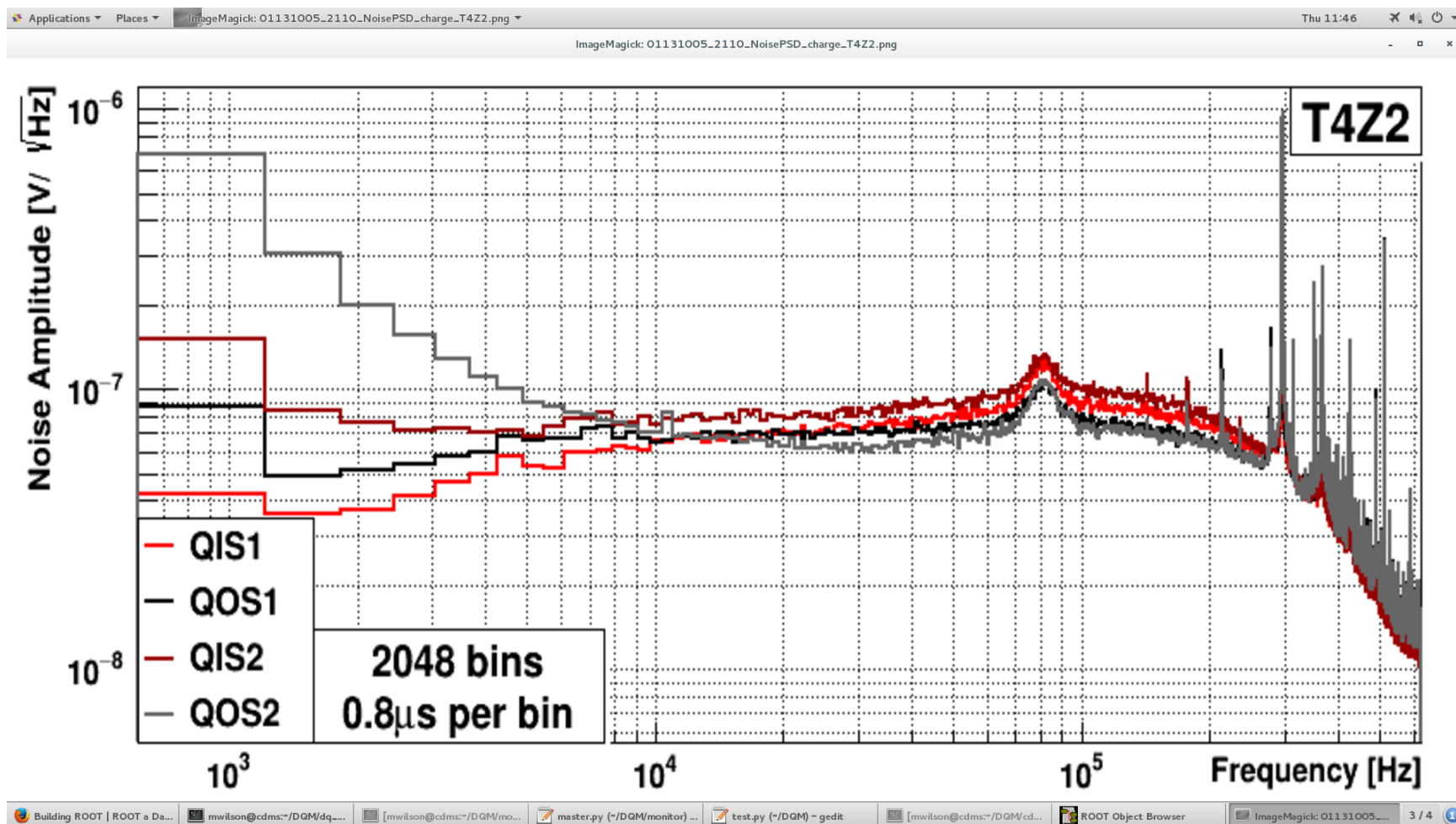
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- I'm trying to find where optimal filter resolution exists in root file

# DQM



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- May need to ask
- It's possible that these files may not have that RQ (if they are older)
- If RQ is found, the “decision” part is easy to implement
- Then need to work this code into DAQ (w/ Ben Smith)



# Dark Photon

[http://titus.stanford.edu/cdms\\_restricted/snolab/er\\_dm\\_signals/ebook/171102\\_mw/note.html](http://titus.stanford.edu/cdms_restricted/snolab/er_dm_signals/ebook/171102_mw/note.html)

# Dark Photon

- Young-June connected me with Peter Johnson from Brookhaven National Laboratory
- He said he would do some research for me. So far:
  - Has stated that there is no experimental data in optical spectroscopy at mK temperature range
  - Has given me an article about potentials in crystal structures
  - Has said “In terms of cross-sections we would normally just use those theoretical cross-sections you refer to and not worry that they are atomic.”
- I will ask about Universal curve for photoelectric effect, and see if there is data that exists.

# IOLibrary

- Last week meeting with Bruno, Amy, Belina, Anthony
- Bruno wants to clean up CDMSBats, switching to IOLibrary.
- Status of midasio – the same, but he could start using this to read midas files
- Discussion about DAQ format in memory – who/how to decide if that is the way to go
- Using IOLibrary to read/write ODB data?